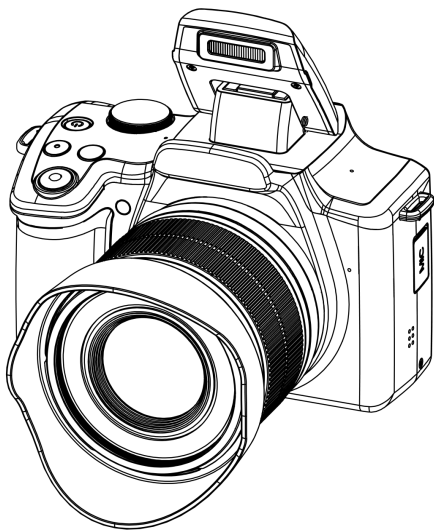


User Manual

Digital Camera



Preface

Thank you for purchasing our digital camera. Before using the camera, please be sure to read and understand the relevant content of "Safety Matters". Please keep this manual properly for future reference. It is recommended to take a few non-essential images before capturing important ones to ensure that you are operating the camera correctly. The interface illustrations and camera schematics in this manual are examples from the product development stage. If some functions are supplemented or modified through camera firmware upgrades, the content of the manual may differ from the actual functions. Please refer to the actual camera information.

Camera features

- ❖ 10X optical zoom
- ❖ 64-megapixel photos
- ❖ 5K HD video recording
- ❖ IPS HD capacitive touchscreen
- ❖ Six-axis EIS (Electronic Image Stabilization)
- ❖ Full-color night vision
- ❖ Dual front and rear cameras
- ❖ Wi-Fi connectivity
- ❖ Webcam

Camera usage tips

Camera safety and operation

1. Please do not disassemble or repair the camera yourself.
2. Avoid exposing the camera to extreme temperatures or humid environments.
3. When transitioning from a cold environment to a warm one, one must adapt gradually to prevent condensation.
4. Do not press the lens hard or expose it to direct sunlight for extended

periods.

5. Clean with a slightly damp soft cloth only, and avoid using chemical solvents.

6. Handle with care to avoid impacting the camera's display screen.

Camera usage warning

1. Do not point the flash directly at people's eyes at close range, as it may cause discomfort or injury.

2. Do not operate the camera while walking or driving to prevent accidents.

3. Do not allow the camera strap to entangle around a child's neck, as it poses a risk of suffocation.

Camera maintenance tips

1. When the camera is not in use, please store it in a cool and dry place and remove the battery.

2. Please wear a lanyard when using the camera to prevent it from accidentally falling.

3. Using a camera bag can prevent scratches on the lens and screen.

4. When cleaning the lens, please gently blow away the dust first, and then wipe it with a cloth specifically designed for optical equipment. If necessary, Lens cleaning solution can be used.

5. Do not use organic solvents to clean the camera.

6. Avoid touching the lens directly with your hands, as dirt on the lens can affect the imaging quality.

Storage card usage tips

Formatting and compatibility

1. The new card needs to be formatted before its first use, and cards previously used in other devices also need to be reformatted.

2. Do not directly use a memory card that has been formatted by another camera, video recorder, or card reader.

Operational precautions

1. Before inserting or removing the memory card, turn off the camera power.

2. Avoid bending, dropping, or squeezing the memory card, and keep it away from strong magnetic/electric fields.

3. It is normal for the memory card to become slightly warm after prolonged use.

Data protection

1. Do not power off or remove the card when recording, deleting, formatting, or reading data.
2. Regularly back up important data to other storage devices.

Battery Safety Guidelines

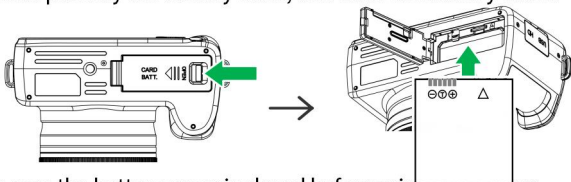
If handled improperly, batteries may burst, cause a fire, or even result in chemical burns. Please observe the following precautions:

1. Do not disassemble the battery.
2. Do not crush the battery or subject it to any impact or force, such as striking it with a hammer, dropping it, or stepping on it.
3. Do not allow metal objects to come into contact with the battery terminals to prevent a short circuit.
4. Do not expose the battery to temperatures above 60°C (140°F), such as inside a car exposed to direct sunlight.
5. Do not dispose of the battery by burning it.
6. Do not touch damaged or leaking lithium-ion batteries directly.
7. Be sure to charge the battery using the original charger or a compatible charger.
8. Store the battery out of the reach of children.
9. Keep the battery dry.
10. If you need to replace the battery, use an original manufacturer's battery or one of the same type.
11. Used batteries contain hazardous substances and must not be disposed of as regular household waste. Please follow local environmental regulations and hand them over to designated collection points or professional organizations for proper disposal.

Installing & Charging the Battery

Insert the battery

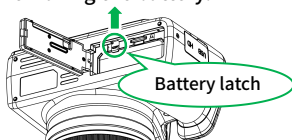
1. Press the battery cover release latch to unlock it, then open the battery cover.
2. As shown in the figure, insert the end of the battery with the metal contacts into the battery compartment, then push it in until the battery is locked into place by the battery latch, and close the battery cover.



3. Make sure the battery cover is closed before using the camera.

Removing the Battery

Turn off the camera before removing the battery. Open the battery cover, push the battery latch, and the battery will pop out automatically. Close the battery cover after removing the battery.



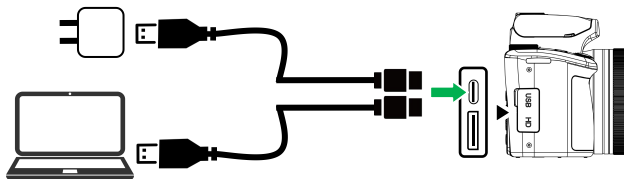
⚠ If you are unable to remove the battery yourself, please contact an authorized dealer for assistance. Do not use excessive force when attempting to remove the battery.

⚠ Do not remove the battery while the memory card is being read or written to.

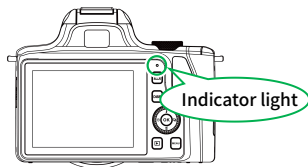
Charging the Battery

1. If the camera's battery is low, you can charge it using the following methods:

- ① Charge the camera using a Type-C/USB cable connected to a 5V charger;
- ② Connect the camera to a computer using a Type-C/USB cable.



2. While the camera is charging, the indicator light will remain solid red. It is recommended to charge the camera when it is turned off.
3. When the battery is fully charged, the indicator light will turn off. Please disconnect the USB cable from the camera.

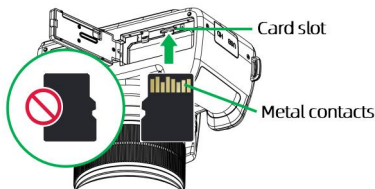


4. The camera's battery icon displays the current battery level, shown as battery bars. When the battery level falls below 10%, the battery bar icon turns red.

Insert storage card

Inserting a Memory Card

1. This camera supports Micro SD cards (4GB–256GB) and Class 10/U3 memory cards.
2. With the camera turned off, open the battery cover and follow the icon next to the card slot. Align the metal contacts on the memory card with the screen, then insert the card into the slot until it clicks into place.



- ⚠ Please insert the memory card in the correct orientation to avoid damaging the card or the camera.
- ⚠ Please do not insert a damaged or deformed memory card into the card slot with force, as this may damage the card slot.
- ⚠ New memory cards or memory cards that have been used in other devices must be formatted on this camera.

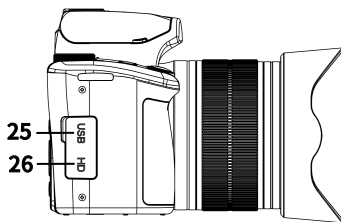
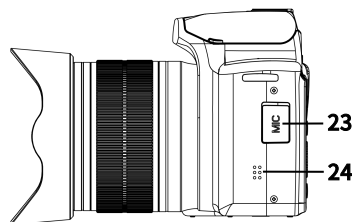
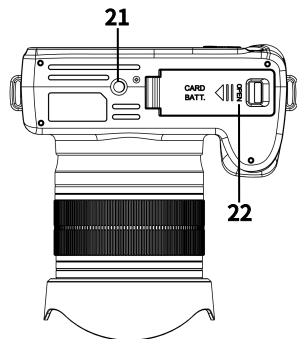
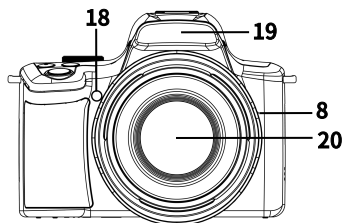
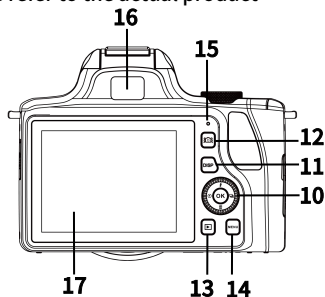
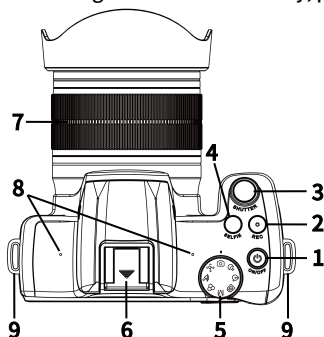
Remove the memory card

Press and release the memory card, it will automatically eject, and then pull out the memory card.

- ⚠ Before replacing the memory card, please turn off the camera power first.
- ⚠ Do not remove the memory card when it is in a read-write state.

Camera components

*The image is for reference only, please refer to the actual product

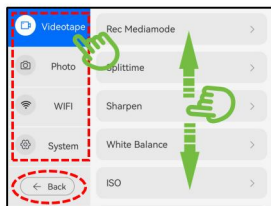


1	Power Button		12	Image Stabilization Button	
2	Shooting Button		13	Playback Button	
3	Photo Button		14	Menu Button	MENU
4	Selfie Button		15	Indicator Light	
5	Mode Dial		16	Front-Facing Camera	
6	Hot Shoe		17	IPS HD Touchscreen	
7	Zoom Ring/Focus Ring		18	Focus Assist Light	
8	Built-in Microphone Jack		19	Flash Cover	
9	Strap Loop		20	Main Lens	
10	OK Button		21	Tripod Mount (1/4-inch standard screw hole)	
	Up Button (Flash Button)		22	Battery Cover (Battery Compartment, Memory Card Slot)	
	Down Button (Delete Button)		23	Microphone Jack (3.5mm)	
	Left Button (Self-Timer Button)		24	Speaker Grille	
	Right Button (Burst Mode Button)		25	USB Type-C Port	
11	Display Button (Burst Mode Button)	DISP	26	HD Port	

Turning the camera on and off

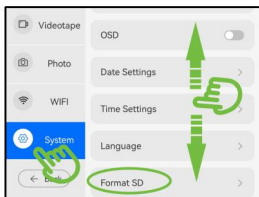
1. Press and hold the power button “” for 2 seconds to turn the device on or off.
2. Automatic shutdown: When the camera's standby time reaches the set automatic shutdown time, the camera will automatically shut down to save power.

Camera Settings



1. Turn on the camera. While in photo or video preview mode, press the Menu button to open the settings menu.
2. Tap “Video Settings/Photo Settings/Wi-Fi Settings/System Settings” on the left side of the camera screen; the corresponding submenu will appear on the right side of the screen.
3. Then, swipe “up” or “down” in the submenu area on the right side of the screen to find the desired option, and tap it to confirm the setting.
4. Once you’ ve finished making your settings, tap “Back” in the lower-left corner of the screen to exit the settings menu.

Format the storage card



Method 1: Touchscreen Operation

1. After turning on the camera, swipe left once on the screen to reveal the hidden icons on the right side of the screen. Tap the Settings icon 「」 to open the Settings menu.
2. Tap “System Settings” in the lower-left corner of the screen to open the System Settings menu.
3. Scroll down in the menu area on the right side of the screen, locate and tap the “Format Memory Card” option, then confirm to format the card.
4. Once formatting is complete, tap “Back” in the lower-left corner of the screen to exit the settings menu.

Method 2: Button Controls

1. After turning on the camera, press the Menu button to enter the settings menu.
2. Use the navigation buttons to select “System Settings,” then press the OK button to confirm and enter the system settings menu.
3. Use the navigation buttons to locate “Format Memory Card,” then press the OK button to confirm formatting.
4. Once formatting is complete, press the Playback button once to exit the settings menu.

⚠ Please do not accidentally click the storage card formatting option during use.

⚠ After formatting the storage card once, you do not need to format it again. (The first formatting is only to match the camera settings)

⚠ It is recommended that you regularly back up your photos to your computer.

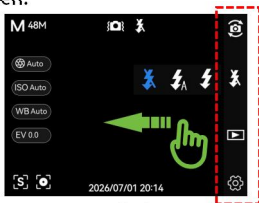
⚠ If you want to reformat the storage card, please make sure to back up important data, as reformatting will erase all data on the storage card, including photos, videos, documents, etc. Once formatted, these data cannot be recovered.

On-Screen Icons

Icon Display

When previewing a photo or video:

1. Swipe left once on the camera screen to reveal the hidden icons on the right side of the screen: Lens Switch “📷” / Flash “⚡” / Playback Mode “▶️” / Settings Menu “⚙️”. Then swipe right once to hide the icons on the right side of the screen.



2. Press the on-screen button to toggle between: hiding all icons on the screen / hiding grid lines / displaying all icons on the screen.

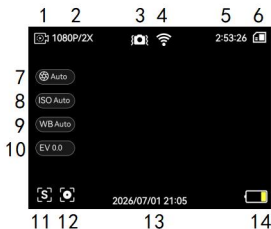
Icon Names

Photo Mode Icons



- | | |
|-------------------------------|-----------------------------|
| 1. Photo Mode | 9. ISO Settings |
| 2. Photo Resolution | 10. White Balance |
| 3. Image Stabilization | 11. Exposure Compensation |
| 4. Flash Mode | 12. Focus Settings |
| 5. Wi-Fi | 13. Center Focus |
| 6. Number of Photos Remaining | 14. Date and Time Watermark |
| 7. Memory Card | 15. Battery Level |
| 8. Shutter Speed | |

Video Mode Icons

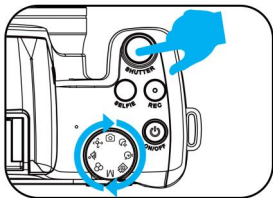


1. Video Mode
2. Video Resolution
3. Image Stabilization
4. Wi-Fi
5. Recording Time
6. Memory Card
7. Shutter Speed
8. ISO Settings
9. White Balance
10. Exposure Compensation
11. Focus Settings
12. Center Focus
13. Date and Time Watermark
14. Battery Level

Taking Photos

1. Select a Shooting Mode

Rotate the mode dial to select a shooting mode: Auto Mode 「」 / Portrait Mode 「」 / Landscape Mode 「」 / Black-and-White Mode 「」 / Manual Mode 「」 / Night Mode 「」.



2. Focus and Take a Photo

(1) Single-shot Focus



Half-press the Shutter Button



Press the Video Recording

① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Single Focus” → Tap “Back” to return to the camera preview mode.

② Then, adjust the optical zoom by rotating the zoom ring on the lens.

③ Tap a custom area on the screen to focus.

④ Half-press the shutter button; the focus frame will turn from white to green, indicating the image is in focus. Press the shutter button fully to take the photo.

(2) Manual Focus Photography

① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Manual Focus” → Tap “Back” to return to the camera preview mode.

② Adjust the optical zoom by pinching with two fingers on the camera screen.

③ Rotate the focus ring on the lens to focus.

④ Once the image is in focus, press the shutter button all the way down to take the photo.

(3) Taking Photos with Auto Focus

① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Auto Focus” → Tap “Back” to return to the camera preview mode.

② Adjust the optical zoom by rotating the zoom ring on the lens.

③ Tap a custom area on the screen to focus; the camera

3. While in camera preview mode, press the on-screen buttons to toggle: Hide on-screen icons/grid lines/Show on-screen icons.

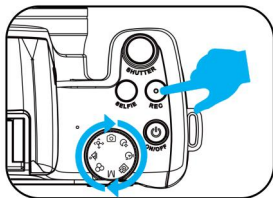
4. During the photo preview, pinch or spread two fingers on the camera screen to zoom in or out.

5. During the photo preview, press the selfie button to turn the front-facing camera on or off. (You cannot adjust the focal length when taking photos with the front-facing camera.)

Video Recording

1. Select a Video Recording Mode

Rotate the mode dial to select a video recording mode: Auto Mode 「📷」 / Portrait Mode 「👤」 / Landscape Mode 「🏞️」 / Black-and-White Mode 「🖤」 / Manual Mode 「M」 / Slow-Motion Mode 「📹」 / Time-Lapse Mode 「⌚」 / Night Mode 「🌙」.



2. Focusing During Video Recording

(1) Single-Focus Video Recording



Press the shutter button to start recording.

- ① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Single Focus” → Tap “Back” to return to the video preview mode.
- ② Press the shutter button once to start recording.
- ③ Rotate the zoom ring to adjust the optical zoom.
- ④ Tap a custom area on the screen to focus, or half-press the shutter button to focus; the focus frame will change from white to green, indicating that the image is in focus.
- ⑤ Press the record button once more to stop recording.

(2) Manual Focus Recording

① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Manual Focus” → Tap “Back” to return to the recording preview mode.

② Press the record button once to start recording.

③ Rotate the zoom ring on the lens to focus.

④ Press the record button once more to stop recording.

(3) Autofocus Recording

① Open the Settings menu → Select “System Settings” → “Focus Settings” → “Autofocus” → Tap “Back” to return to recording preview mode.

② Press the shutter button once to start recording.

③ Rotate the zoom ring to adjust the optical zoom; the camera will autofocus automatically.

④ Press the shutter button again to stop recording.

3. In recording preview mode, press the On-Screen Display button to toggle: Hide on-screen icons / Grid lines / Show on-screen icons.

4. During recording preview, use a two-finger pinch gesture on the camera screen to zoom in or out.

5. During recording preview, press the Selfie button to turn the selfie camera on or off. (You cannot adjust the focal length when taking photos with the selfie camera.)

Playback Mode

1. Open Playback Mode

After taking a photo or recording a video, press the Playback button to open Playback Mode and view your photos and videos.

2. Browse Photos/Videos

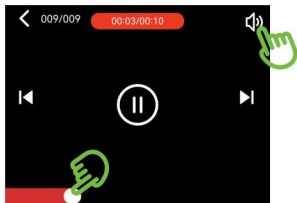
- Switch between images: Swipe left or right on the screen to switch to the previous or next photo or video.
- Thumbnail mode: While viewing photos and videos, press the Playback button again to open the file list. The camera screen will display multiple photos and videos in a grid layout, making it easy to quickly locate what you're looking for.
- In the file list, swipe up or down on the screen to select a photo or video, then tap it to open and view it.

3. Zooming In/Out on Photos

- Zoom in: Spread two fingers apart on the camera screen to zoom in on a photo or video; swipe the screen to move the zoomed area.
- Zoom out: Pinch two fingers together on the camera screen to zoom out and return to the original aspect ratio.

4. Video Playback

- After selecting a video file, press the OK button to start or pause playback. (Alternatively, tap the play icon “▶” in the center of the screen to start or pause playback.)
- While the video is playing, press and hold the progress bar at the bottom and drag it back and forth to fast-forward or rewind the video.
- While the video is playing, tap the volume icon “🔊” in the upper-right corner of the screen to adjust the playback volume.



5. Deleting Files

- In the file list, tap “Select” in the top-right corner to delete photo or

video files; select “Select All” to delete all files.



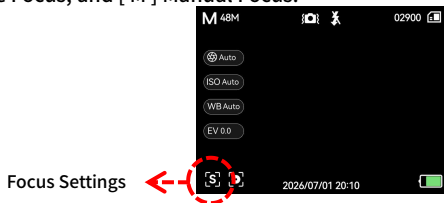
6. Exiting Playback Mode

In the file list, press the Playback button to exit playback mode and return to shooting mode.

Focus and Zoom

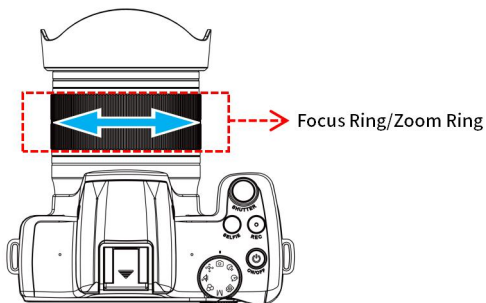
1. Focus Settings

While previewing a photo or video, tap the focus settings icon “**S**” in the lower-left corner of the screen to toggle between: [A] Auto Focus, [S] Single Focus, and [M] Manual Focus.



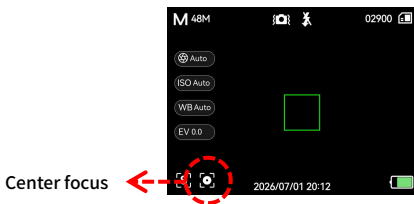
2. Focus Ring/Zoom Ring

- ① In [M] Manual Focus mode, you can manually rotate the focus ring on the lens to adjust focus.
- ② In [A] Auto Focus or [S] Single Focus modes, you can manually rotate the zoom ring on the lens to adjust the zoom, zooming in or out.



3. Center Focus

In [A] Auto Focus or [S] Single Focus modes, tap anywhere on the screen to display a focus frame, then tap the center focus icon “” in the lower-left corner to center the focus.



4. Two-Finger Pinch-to-Zoom

In [A] Auto Focus and [S] Single Focus modes, you can also zoom by pinching with two fingers on the camera screen.



Filters

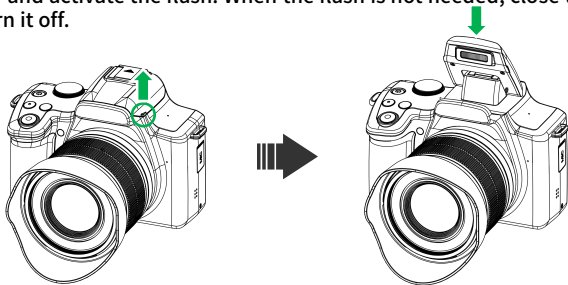
In Auto, Portrait, Landscape, and Manual modes, press the Menu button to open the settings menu → select “Camera Settings” → “Filters” to choose from a variety of filter effects—such as Retro, Cool Tones, Abao Colors, and Film—for your photos.

Filter mode is a built-in feature that optimizes image styles. It allows you to add color and lighting effects directly to your photos while shooting—without the need for post-processing—giving your images a distinct artistic feel. It’s ideal for everyday snapshots, atmospheric shots, and creative photography, and offers simple operation with real-time previews of the effects.

Flash

1. Open the flash cover

There is a raised latch beneath the flash cover; lift it upward to open the cover and activate the flash. When the flash is not needed, close the cover to turn it off.



2. Switch Flash Modes

In photo mode, press the flash button “⚡” to switch between flash modes.

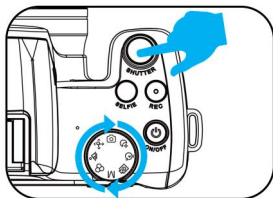
✖ Turn off the flashlight	There was no flash when taking photos in any situation.
⚡ _A Automatic flashing	Under low-light conditions, the flash will automatically illuminate when taking a photo.
⚡ Forced Flash	Whether in a bright or dim environment, the flash is activated during photo taking.

Mode Dial

1. Selecting the 8 Modes

Rotate the mode dial to switch to the desired mode.

The 8 modes are: Auto Mode “📷” / Portrait Mode “👤” / Landscape Mode “🏞️” / Black-and-White Photo “🖼️” / Manual Mode “M” / Slow-Motion Video “📹” / Time-Lapse Video “⌚” / Night Mode “🌙”.



(1) Auto Mode



A fully automatic exposure mode where the camera controls all shooting parameters. The camera uses its built-in scene recognition system to analyze the brightness, color, contrast, and presence of moving objects in the current scene, automatically selecting the most appropriate aperture, shutter speed, ISO sensitivity, white balance, and focus mode.

Metering: The camera uses matrix/evaluative metering, dividing the frame into multiple zones to measure light separately and calculating the optimal exposure value based on the combined data.

Focus: The camera automatically selects the focus area, prioritizing the closest or most prominent subject in the frame (such as faces or pets).

Parameter Coordination: In bright conditions, the camera automatically closes the aperture to improve image quality; in low-light conditions, it automatically opens the aperture or increases the ISO; and when camera shake is detected, it automatically increases the shutter speed.

Ideal Scenarios: Casual snapshots at family gatherings, travel photography, practice for photography beginners, candid shots, and other situations that do not require creative control.

(2) Portrait Mode



The camera automatically optimizes shooting parameters centered on the subject, with the primary goal of making the “person” stand out and

look their best in the frame.

Aperture Strategy: Automatically selects a wider aperture (e.g., $f/1.8$ – $f/2.8$) to create a shallow depth of field, naturally blurring the background (i.e., “background blur”) to highlight the subject.

Focus Logic: Prioritizes face detection and eye detection autofocus to ensure the subject’s eyes are sharp and clear—since the eyes are the soul of a portrait.

Color Calibration: Automatically adjusts white balance and color saturation to give skin tones a natural, healthy glow, avoiding a yellowish or bluish cast. Some cameras slightly reduce contrast to soften the skin’s texture.

Exposure Compensation: Metering is based on the brightness of the subject’s face to prevent the face from appearing too dark or overexposed in backlit conditions.

Suitable Scenarios: Close-ups, half-body portraits, photos of best friends or couples, family commemorative photos, and ID photos.

Advanced Tips:

When shooting, keep the subject at a certain distance from the background (at least 1 meter) for a more pronounced bokeh effect.

Choose a textured background (such as leaves, lights, or brick walls) to create more beautiful bokeh highlights.

(3) Landscape Mode



Optimizes settings to capture the details and colors of expansive scenes, prioritizing “deep depth of field” and “high saturation.”

Aperture Strategy: Automatically select a smaller aperture (e.g., $f/8$ – $f/11$) to leverage the deep depth of field provided by a small aperture, ensuring the entire scene—from foreground to background—remains sharp.

Focus Logic: Set the focus distance to a greater distance, typically locking onto infinity or beyond the focal length, to ensure the background is sharp.

Color Calibration: Automatically enhances color saturation and contrast, making blue skies bluer, green trees greener, and sunset skies more vibrant.

Sharpness Optimization: Automatically increases image sharpness, making mountain textures, architectural lines, and leaf veins clearer and more distinct.

Noise Reduction Strategy: Prioritizes low ISO settings in well-lit conditions to ensure optimal image quality.

Suitable Scenarios: Natural landscapes (mountains, oceans, grasslands),

city skylines, architectural photography, and travel souvenirs.

Notes:

Landscape mode works best in bright light; a tripod is recommended on cloudy days or at dusk.

If there are moving elements in the frame (such as pedestrians or vehicles), the slow shutter speed caused by a small aperture may result in motion blur.

(4) Black-and-White Mode



The camera captures images directly in black-and-white (monochrome) mode, rather than desaturating them in post-processing. This means color information is discarded when data is read from the sensor, allowing the camera to focus on light, shadow, texture, and composition. **Color Filtering:** The camera sensor still captures color information, but it is converted directly to a grayscale image during in-camera processing. Some advanced cameras simulate the spectral response curve of traditional black-and-white film.

Contrast Enhancement: Automatically or manually enhances the contrast between light and dark areas, making the “black,” “white,” and “gray” tones in black-and-white photos more rich and nuanced.

Sharpness Optimization: Since color information is removed, image details and textures become more prominent; the camera appropriately increases sharpness to enhance this effect.

Suitable Scenarios: Street documentary photography, artistic portraits, highlighting architectural lines, conveying mood or storytelling, and creating retro-style works.

(5) Manual Mode



Gives the user full control over aperture, shutter speed, and ISO sensitivity; the camera does not intervene in any parameter settings.

Suitable Scenarios:

Long-exposure photography: Capturing the trails of moving vehicles, the misty effect of flowing water, and star trails—requires manually setting a slow shutter speed (e.g., 30s).

Astrophotography: Requires a precise combination of high ISO (1600–6400) and long exposure (15–30s).

Studio Lighting: Under constant lighting conditions, precise control of exposure parameters is required.

Panorama Stitching: When stitching multiple photos into a panorama, all parameters must remain consistent; only Manual (M) mode can be used.

Creative Exposure: Intentionally underexposing to preserve highlight details, or intentionally overexposing to create a high-key atmosphere.

Advanced Techniques:

Shutter Speed Safety Rule: When shooting handheld, the shutter speed should not be slower than “1/focal length” seconds (e.g., when using a 50mm lens, the shutter speed should not be slower than 1/50s).

Exposure Lock: Meter the subject first, lock the exposure value, and then recompose the shot.

(6) Slow-Motion Video Mode



The camera records at a frame rate much higher than the standard frame rate and then plays back the footage at the standard frame rate, creating a visual effect where “time appears to slow down.”

High Frame Rate Recording: The camera records continuously at a high frame rate.

Auto Slow-Motion: After recording is complete, the camera automatically plays back the video at the standard frame rate to achieve the slow-motion effect.

Focus Strategy: Due to fast motion, the camera enables Continuous Autofocus (AF-C) and increases focus tracking sensitivity.

Exposure Adjustment: A high frame rate means the exposure time per frame is extremely short, so ample light or a high ISO setting is required to ensure sufficient brightness.

Suitable Scenes: Soccer shots on goal, running sprints, water droplets splashing, flower petals blooming, slow-motion glances over the shoulder, etc.

Shooting Tips:

Make sure there is plenty of light! Slow motion requires extremely short exposure times; insufficient light will result in underexposed images or excessive noise.

Use a tripod or stabilizer, as slow motion magnifies even the slightest camera shake.

Anticipate where the action will occur and keep the subject centered in the frame.

(7) Time-Lapse Video Mode



The camera captures photos at intervals much longer than the standard frame rate (e.g., one photo every 1 second, 5 seconds, 10 seconds, or even 30 seconds), then combines these photos into a video at the standard frame rate, allowing slow-changing processes to be presented quickly

within a short timeframe.

Interval Shooting: The camera automatically takes hundreds to thousands of photos in succession at a set time interval (e.g., one photo every 5 seconds).

In-Camera Compositing: After shooting is complete, the camera automatically combines these photos into a video.

Suitable Scenes: Surging sea of clouds, sunrises and sunsets, traffic trails, changing neon lights, the rotation of the starry sky, etc.

Essential Equipment:

Tripod: Absolutely essential! The camera must remain completely stationary for anywhere from tens of minutes to several hours.

High-Capacity Memory Card: Time-lapse photography generates a large number of photo files.

Advanced Tips:

Exposure Lock: Use Manual (M) mode to lock all settings and prevent sudden changes in brightness.

White Balance Lock: Lock the white balance (e.g., Daylight) to avoid color fluctuations.

Battery Management: For extended time-lapse sessions, be sure to use a fully charged battery or an external power source.

(8) Night Scene Mode

In extremely low-light conditions, the camera uses multi-frame merging technology or long exposures to capture sufficient light, while maintaining image clarity through intelligent noise reduction algorithms.

Automatic Parameter Adjustment Strategy:

Aperture: Automatically opens to the widest aperture to capture as much light as possible.

Shutter Speed: Automatically selects a safe shutter speed or a long exposure based on handheld stability or tripod use.

ISO: Automatically increases the ISO (typically 800–6400) and uses multi-frame noise reduction algorithms to control noise.

Focus: Automatically switches to contrast-detection autofocus in low light; the camera will use the AF assist light.

Suitable Scenarios: Moonlit landscapes, dimly lit interiors, fireworks/light shows (requiring long exposures to capture light trails), etc.

Shooting Tips:

Handheld Shooting: Try to find a support point (leaning against a wall or railing), hold the camera firmly with both hands, and hold your breath as you press the shutter button.

Tripod Shooting: Use a shutter release cable or the 2-second self-timer to avoid camera shake caused by pressing the shutter button.

Turn Off Image Stabilization: When using a tripod, it is recommended to turn off lens and/or camera body image stabilization, as it may actually introduce slight image quality loss when there is no camera shake.

Frequently Asked Questions:

Blurry images: This is usually caused by unsteady handheld shooting; using a tripod is recommended.

Excessive noise: This is caused by an ISO setting that is too high; try lowering the ISO and increasing the exposure time.

Focusing issues: Autofocus can be difficult in low light; switch to manual focus and use peak focus assistance.

Connect to camera Wi-Fi

Please follow the steps below to connect your phone to the camera for remote control via the APP.



1. Activate Wi-Fi 2. Download APP 3. Connect Wi-Fi 4. Use APP 5. Disconnect

1. Turn on the camera's Wi-Fi

① After turning on the camera, on the shooting preview screen, press the Menu button to open the Settings menu → select “Wi-Fi Settings” → toggle the “Wi-Fi” switch to enable the camera's Wi-Fi mode.

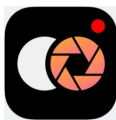
Alternatively, on the shooting preview screen, press and hold the Menu button for 2 seconds to enable the camera's Wi-Fi mode.

② Go to the Settings menu → select “Wi-Fi Settings” → select “Wi-Fi Information” to view the details.



2. Download and Install the “Viipulse” App

- ① Android users: Search for “Viipulse” in the app store or a third-party browser to install the app.
- ② iPhone users: Search for “Viipulse” in the App Store to install the app.
- ③ Both Android and iPhone users can scan the QR code below (or the QR code on the camera’s Wi-Fi information page) using their phone’s browser to download and install the “Viipulse” app.



Viipulse

3. Connect Your Phone to the Camera’s Wi-Fi

Open your phone’s Wi-Fi settings, find the camera’s network name: DC221Camera_XXXXXX, tap it, and enter the camera’s Wi-Fi password: XXXXXXXX.

4. Using the “Viipulse” App

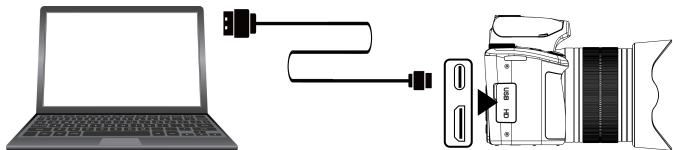
1. Open the “Viipulse” app on your phone and add the camera.
2. The app allows you to remotely control the camera to take photos and record videos. You can also use the app to browse the camera’s photos and videos, and download files from the camera to your phone or tablet for sharing.

5. Turn Off the Camera’s Wi-Fi

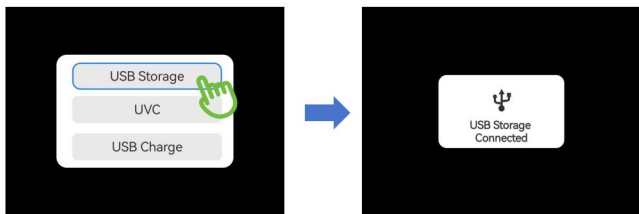
Press the camera’s Menu button to exit Wi-Fi mode, which will disconnect the camera from the mobile app.

Download camera photos and videos to the computer

1. Turn on the camera and use a Type-C USB cable to connect it to your computer.



2. Once connected, a dialog box will appear on the camera screen. Select “USB Storage” on the screen.



3. Then, check for the new removable disk in “My Computer.” The photos and videos taken by the camera will be saved in the DCIM folder, and you can copy them from the camera’s folder to your computer.

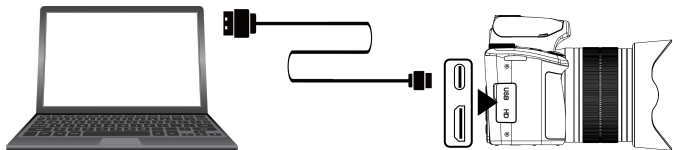
4. Once the download is complete, unplug the USB cable, and the camera will exit portable hard drive mode.

⚠ Do not disconnect the camera from the computer while files are being downloaded.

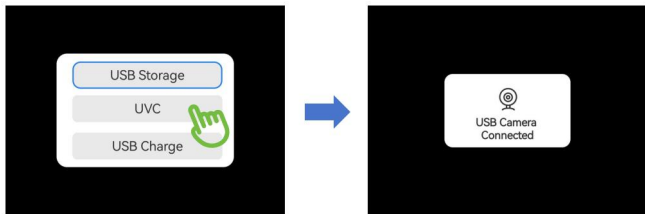
⚠ Do not remove or insert the memory card from the camera while data is being transferred via the computer, to avoid data loss.

Webcam

1. Turn on the camera and use a Type-C USB cable to connect it to your computer.



2. Once connected, a USB dialog box will appear on the camera's screen. Click "UVC".

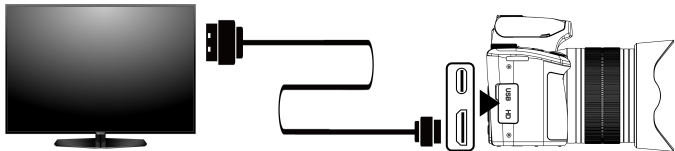


3. In the external camera settings of your social media app, select "UVC". You can then use the camera as your computer's webcam.

4. When you're finished, unplug the cable, and the camera will exit webcam mode.

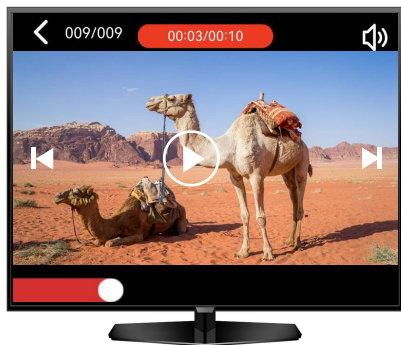
Connecting to a TV for Playback

1. Turn on the camera and Use an HDMI Cable to connect the camera to the TV.



2. Once the connection is established, press the camera's playback button to enter playback mode.

3. Use the up/down arrows to select the video you want to play, then press the OK button to confirm playback.



4. When you're finished, unplug the HD cable, and the camera will exit TV playback mode.

Camera parameters

Photo Resolution	16:9 (64M, 32M, 18M, 8M); 4:3 (48M, 44M, 24M, 10M, 6M), etc.
Video Resolution	5K/25 fps; 4K/30 fps; 2.7K/30 fps; 1080p/60 fps; 1080p/30 fps; 720p/60 fps, etc.
Memory Card	Supports Micro SD memory cards (4 – 256 GB), supports Class 10/U3
File Format	Photos: JPG; Videos: MP4
Display	3.2-inch IPS HD touchscreen display, 640×854
Optical Zoom Ratio	10X
Main Lens	Lens Type: 5G/13E Field of View: D 75.4° (W) to 8.8° (T), H 67.5° (W) to 7.6° (T), V 40.2° (W) to 4.3° (T) Aperture and Focal Length: Ff (F/1.8–3.0, f = 4.3–43 mm) Focusing Distance: 5cm ~ ∞
Selfie Camera	Lens Type: 7P Field of View: D 73.8°, H 62°, V 48.5° Aperture and Focal Length: Ff (F/2.2, f = 3.37 mm) Focusing Distance: 50cm ~ 80cm
USB Port	Type-C
Input	5V= 2A
Operating System	Windows 7/Windows 8/Windows 10/Windows 11
Product Dimensions (with Lens Hood)	139.5×143×103mm

Note: The product specifications provided are the latest information available at the time of writing this manual. If there are any changes to the specifications, no further notice will be given. Please refer to the actual camera for accuracy!

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.



RoHS

