Ricoh 03123

Ricoh WG-80 Black Waterproof Digital Camera User Manual

Model: WG-80

Introduction

The Ricoh WG-80 is a robust and versatile digital camera designed for demanding outdoor conditions. It features a heavy-duty construction that makes it waterproof, shockproof, dustproof, freezeproof, and crushproof. Equipped with a 16-megapixel back-illuminated CMOS sensor, it delivers high-resolution images and Full HD video. Its unique Macro Lights and specialized shooting modes make it ideal for a wide range of photographic adventures, from underwater exploration to close-up nature shots.



Figure 1: Front view of the Ricoh WG-80 camera, showcasing its rugged design and the six LED Macro Lights around the lens.



Figure 2: The Ricoh WG-80 camera depicted in various adventure scenarios, including hiking, diving, mountain biking, and snowboarding, highlighting its suitability for all-weather use.

Package Contents

Ensure all items listed below are present in your package:

- Camera body
- Battery
- Power adapter
- Power plug
- USB cable
- Strap
- Macro stand

Setup

1. Battery Installation and Charging

The camera uses one Lithium Ion battery. Insert the battery into the battery compartment located on the side or bottom of the camera, ensuring correct orientation. Close the compartment securely to maintain waterproof integrity.
To charge the battery, connect the camera to the power adapter using the supplied USB cable. The charging indicator will illuminate. Once charging is complete, the indicator will turn off or change color.

2. Memory Card Insertion

The Ricoh WG-80 supports SD XC memory cards up to 512 GB. Open the memory card slot cover, insert the memory card with the contacts facing the correct direction until it clicks into place. Close the cover firmly to ensure waterproof sealing.

3. Initial Power On and Settings

Press the power button to turn on the camera. Upon first use, you may be prompted to set the date, time, and language. Follow the on-screen instructions to configure these basic settings.

Operating the Camera

Basic Photography (Auto Picture Mode)

The camera features an "Auto Picture" mode that automatically selects the most appropriate shooting mode from 16 different scene modes based on the subject type. This allows for effortless point-and-shoot photography in various conditions.

Specialized Shooting Modes

- **Underwater and Underwater Movie Modes:** These modes are specifically designed to optimize color and contrast for underwater photography, compensating for color loss and light diffusion. The "Flash Off + Flash On" option allows capturing two consecutive images (one with flash, one without) with a single shutter release.



Figure 3: An example of an image taken underwater, demonstrating the camera's ability to capture vibrant marine life.



Figure 4: Illustration showing the effect of flash on and off for underwater photography, allowing users to choose the best lighting for their shots.

- **Digital Microscope Mode:** When selected, the six LED Macro Lights around the lens provide bright, uniform illumination for close-up shooting. The intensity can be adjusted in five steps. The Instant Illumination Enhance function uses a higher shutter speed by automatically raising the Macro Light discharge level to minimize shake.



Figure 5: A detailed close-up image of various colorful flowers, demonstrating the camera's macro capabilities.



Figure 6: The Ricoh WG-80 camera with its six LED Macro Lights illuminated around the lens, designed for bright and uniform close-up illumination.

- **Handheld Night Snap Mode:** Automatically captures several images of the same nighttime scene and combines them into a single, blur-free composite image.

Video Recording

The WG-80 supports Full HD movie recording (1920 x 1080 pixels, 16:9 proportions) at 30 frames per second using the H.264 format. It also includes a high-speed camera function for slow-motion playback (recorded size fixed at 1280 x 720 pixels) and an interval movie function. A micro-HDMI terminal (Type D) allows simultaneous output of video and sound to external devices.

Anti-Shake Protection

The camera features triple anti-shake protection to minimize blurred images:

- **Pixel Track SR mechanism:** Digitally processes affected images to compensate for camera shake during still image recording.
- **Digital SR mode:** Automatically raises sensitivity up to ISO 6400 in low-lighting conditions to allow for higher shutter speeds, reducing camera and subject shake.
- **Movie SR mode:** Uses exclusive software to compensate for image misalignment caused by camera shake during movie recording, producing blur-free clips.

LCD Monitor and View Setting

The 2.7-inch LCD monitor has 16:9 proportions and approximately 230,000 dots. Its AR (Anti-Reflection) coating minimizes glare. The "Outdoor View Setting" mode allows easy adjustment of monitor brightness for optimal visibility in various lighting conditions.



Figure 7: The camera's LCD screen displaying the Outdoor View Setting mode, which allows users to adjust brightness for better visibility in bright outdoor conditions.

Additional Features

- **Face Detection:** High-speed function to detect up to 32 faces in approximately 0.03 seconds.
- **Smile Capture:** Automatically releases the shutter when a smile is detected.



Figure 8: An image demonstrating the camera's face detection capability, with yellow boxes highlighting detected faces.

- **Self-Portrait Assist:** Uses the blink of an LED lamp (Macro Lights) to indicate if the subject's face is safely within the picture frame.

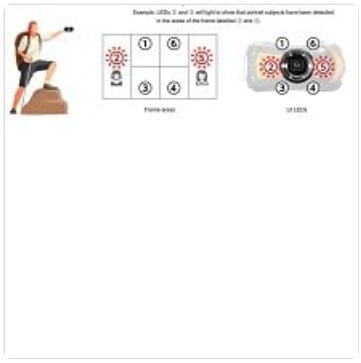


Figure 9: A diagram illustrating how the LED Macro Lights assist in self-portraits by indicating proper framing.

- **LED Lighting Mode:** Uses the Macro Lights as a lighting device in the dark.
- **Style Watch Function:** Displays the time on the LCD monitor with an extended push of the OK button when the camera is off.
- **Playback Mode:** Delay-free, pushbutton start of the playback mode with an extended push of the playback button.

Maintenance

To ensure the longevity and optimal performance of your Ricoh WG-80 camera, follow these maintenance guidelines:

- **Cleaning:** After use, especially after exposure to water, sand, or dirt, rinse the camera with fresh water and wipe it dry with a soft, clean cloth. Do not use organic solvents or strong chemicals.
- **Lens Care:** Use a lens brush or a soft, lint-free cloth specifically designed for camera lenses to clean the lens. Avoid touching the lens surface with your fingers.
- **Seals and Gaskets:** Regularly inspect the rubber seals and gaskets around the battery compartment, memory card slot, and USB/HDMI ports for any signs of damage, dirt, or debris. Keep them clean and free of foreign particles to maintain waterproof integrity.
- **Storage:** Store the camera in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the battery.
- **Battery Care:** Charge the battery fully before use. Avoid completely draining the battery frequently. If not used for a long time, charge the battery at least once every six months.

Troubleshooting

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or incorrectly inserted.	Charge the battery fully. Ensure the battery is inserted with correct polarity.

Problem	Possible Cause	Solution
Images are blurry.	Camera shake, subject movement, or dirty lens.	Hold the camera steady. Use Digital SR mode in low light. Clean the lens.
Cannot take pictures.	Memory card is full or not inserted.	Delete unnecessary images or insert a new memory card. Ensure card is properly inserted.
Water inside camera.	Compartment covers not properly sealed.	Immediately turn off the camera, remove battery and memory card. Contact customer support. Always ensure all covers are securely closed before exposing to water.
LCD screen is too dark/bright outdoors.	Incorrect brightness setting.	Adjust the brightness using the "Outdoor View Setting" mode.

SPECIFICATIONS

Feature	Detail
Model Number	03123
Effective Megapixels	Approx. 16.0 effective megapixels
Image Sensor	Back-illuminated CMOS
Optical Zoom	5x optical zoom lens (equivalent to approx. 28mm to 140mm in 35mm format)
Digital Zoom	Approx. 7.2x
Video Recording	Full HD (1920 x 1080 pixels) at 30 fps, H.264 format
LCD Monitor	2.7-inch, 16:9 proportions, approx. 230,000 dots, AR coating
Waterproof	Down to 14 meters (45 feet) for up to 2 hours (IPX8/JIS Class 8)
Shockproof	Against falls from 1.6 meters (5.2 feet)
Dustproof	Equivalent to IPX6/JIS Class 6
Freezeproof	Down to -10°C (14°F)
Crushproof	Against weights up to 100kgf (220 lbf)
Connectivity	Micro-HDMI (Type D)
Dimensions (Product)	7 x 5 x 3 inches
Weight (Item)	1 pound
Battery Life	Approx. 300 shots (CIPA standard)



Figure 10: Visual summary of key specifications including optical zoom, resolution, weight, and battery life.

Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Ricoh website. For technical support, troubleshooting beyond this manual, or service inquiries, please contact Ricoh customer support.
Additional resources:

- User Guide (PDF)
- User Manual (PDF)
- Visit the Ricoh Store on Amazon for more product information and accessories.

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