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Ricoh 162102

Ricoh G900 Industrial Digital Camera User Manual

Model: 162102

1. Introduction

The Ricoh G900 is a robust and versatile digital camera engineered for demanding professional environments. Its design prioritizes durability and reliability, making it suitable for use in construction, disaster relief, healthcare, and other challenging industrial settings. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your Ricoh G900 camera.



Figure 1.1: Front view of the Ricoh G900 Industrial Digital Camera.

Key Features:

- **High Resolution Images:** 20 megapixels for clear details in various lighting conditions.
- **Impact Resistant:** Passes a 2.1m drop test, ensuring durability in rugged environments.
- **Waterproof 20M:** IPX8 water resistance, submersible up to 20 meters for 2 hours.
- **Chemical Resistant:** Safe for use with common disinfectants like sodium hypochlorite, ethanol, or liquid chlorine dioxide.

- **Dust and Freeze-proof:** Protects against dust, sand, and operates down to -10°C.
- **Webcam Function:** Enables use as a webcam for high-quality video conferencing.
- **Password Protection:** Secure camera functions, internal memory, and SD cards.



Figure 1.2: The G900's waterproof capability.



Figure 1.3: The G900's dust-proof design.



Figure 1.4: The G900's chemical resistance.

2. Setup

2.1 Battery Installation

To install the battery:

1. Locate the battery compartment cover on the bottom of the camera.
2. Slide the lock release to open the cover.
3. Insert the Ricoh DB-110 battery into the compartment, ensuring correct orientation.
4. Close the battery compartment cover securely until it clicks into place.

2.2 Memory Card Insertion

The Ricoh G900 supports SDHC and SDXC memory cards.

1. Open the battery/memory card compartment cover.

2. Insert the memory card into the designated slot with the label facing the correct direction (usually towards the front of the camera).
3. Gently push the card until it locks into place.
4. Close the compartment cover securely.



Figure 2.1: Bottom view of the camera, showing the battery/memory card compartment and USB/HDMI ports.

2.3 Initial Charging

Before first use, fully charge the battery using the supplied USB power adapter and cable. Connect the camera to a power outlet until the charging indicator light turns off, indicating a full charge.

3. Operating the Camera

3.1 Power On/Off

To power on the camera, press the **ON/OFF** button located on the top panel. To power off, press and hold the same button until the camera shuts down.

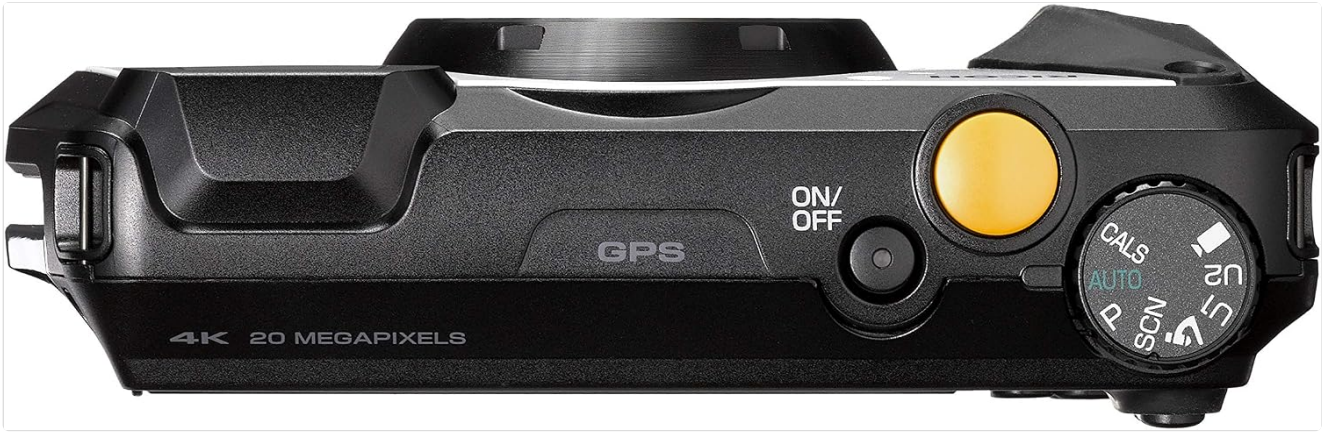


Figure 3.1: Top view of the Ricoh G900, highlighting the ON/OFF button and mode dial.

3.2 Basic Shooting Modes

The Ricoh G900 features various shooting modes accessible via the mode dial on the top of the camera. Common modes include:

- **AUTO:** Fully automatic mode for general photography.
- **SCN (Scene):** Select from predefined scene modes for specific shooting conditions (e.g., Landscape, Portrait).
- **Movie Mode:** For recording video.

To capture an image, press the shutter button located next to the ON/OFF button. For video, press the dedicated video recording button.



Figure 3.2: Back view of the camera, showing the LCD screen and control layout.

3.3 Zoom Function

The camera features a 5x optical zoom lens. Use the zoom lever (T/W) located near the shutter button to adjust the focal length. 'T' zooms in (telephoto) and 'W' zooms out (wide-angle).

4. Advanced Features

4.1 Webcam Functionality

The Ricoh G900 can be used as a high-quality webcam. To activate this feature, connect the camera to your PC using the supplied USB cable and switch the camera to UVC (USB Video Class) mode. This allows the camera to function with various web conferencing applications.

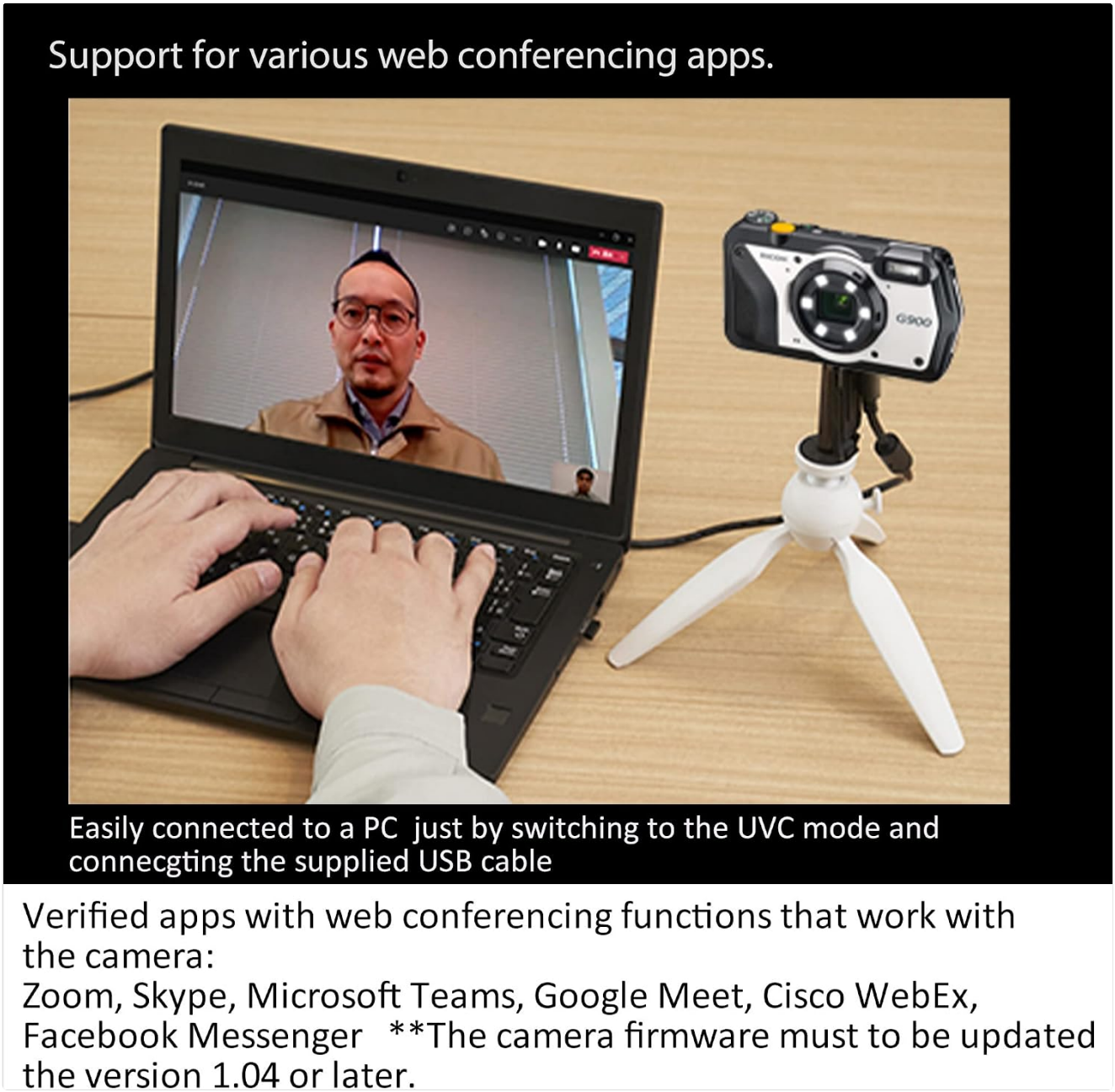


Figure 4.1: The Ricoh G900 configured as a webcam for web conferencing.

4.2 Password Protection

The G900 offers robust password protection features to secure your camera and data:

- **Camera Functions:** Password-protect access to the entire camera or specific settings.
- **Internal Memory:** Secure the camera's built-in memory.
- **SD Cards:** Password-protect SDHC and SDXC memory cards to prevent unauthorized access if lost or stolen.

Refer to the camera's on-screen menu for detailed steps on setting and managing passwords under 'Expanded Settings'.

4.3 Memo Functions and GPS

The camera includes versatile functions for managing and sorting images:

- **Camera Memos:** Add text or voice memos to images and movies.
- **Barcode Entry:** Use barcodes for quick memo and password entry.
- **Image Clips:** Link related images together.

- **Built-in GPS:** Automatically embed location data into your photos.

5. Maintenance

5.1 Cleaning the Camera

To maintain optimal performance and appearance:

- Wipe the camera body with a soft, damp cloth. For stubborn dirt, use a mild soap solution.
- Clean the lens and LCD screen with a specialized lens cleaning cloth and solution. Avoid abrasive materials.
- Ensure all port covers and the battery compartment are securely closed before cleaning with water or chemicals.

5.2 Storage

When not in use, store the camera in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.

6. Troubleshooting

This section addresses common issues you might encounter with your Ricoh G900.

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or incorrectly inserted.	Charge the battery fully. Reinsert the battery correctly.
Images are blurry.	Lens is dirty, focus issue, or camera shake.	Clean the lens. Ensure proper focus. Use image stabilization or a tripod.
Cannot record video.	Memory card is full or not inserted.	Delete unnecessary files or insert a new memory card.
Webcam function not recognized.	Incorrect mode or driver issue.	Ensure camera is in UVC mode. Check PC device manager for drivers.

7. Specifications

Key technical specifications for the Ricoh G900:

Feature	Specification
Effective Still Resolution	20 MP
Optical Zoom	5x
Video Resolution	4K DCI 2160p

Feature	Specification
Water Resistance Level	Waterproof (20M, IPX8)
Impact Resistance	2.1 meters
Operating Temperature	Down to -10°C
Display Type	3-inch LCD
Connectivity	HDMI, USB, GPS
Battery Type	Ricoh DB-110 Lithium Ion
Item Weight	1.52 Pounds

8. Warranty and Support

8.1 Warranty Information

The Ricoh G900 comes with a 1 Year Manufacturer's Warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation included with your product or visit the official Ricoh support website.

8.2 What's in the Box

Your Ricoh G900 package includes:

- Ricoh G900 Industrial Digital Camera
- Rechargeable Battery (Ricoh DB-110)
- USB Power Adapter
- Power Plug
- USB Cable
- Battery Charger
- Neck Strap
- Macro Stand
- Instruction Manual (this document)
- Warranty Card

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