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## Canon G12

# Canon PowerShot G12 10 MP Digital Camera User Manual

Your comprehensive guide to operating and maintaining your Canon PowerShot G12 digital camera.

## 1. INTRODUCTION

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The Canon PowerShot G12 is a 10.0-megapixel compact digital camera featuring a 5x optical image-stabilized zoom lens and a 2.8-inch vari-angle LCD. This manual provides essential information for setting up, operating, and maintaining your camera to ensure optimal performance.



Figure 1: Front view of the Canon G12 digital camera, showcasing its lens, flash, and grip.

## 2. SETUP AND INITIAL USE

### 2.1. Installing the Battery

1. Open the battery compartment cover located on the bottom of the camera.
2. Insert the Lithium-ion Battery Pack NB-7L, ensuring the correct orientation.
3. Close the battery compartment cover securely.

### 2.2. Inserting a Memory Card

The PowerShot G12 supports SD/SDHC/SDXC memory cards. A memory card is required to store photos and videos.

1. Open the memory card slot cover, usually located near the battery compartment.
2. Insert the memory card with the label facing the front of the camera until it clicks into place.
3. Close the memory card slot cover.

### 2.3. Attaching the Neck Strap

Securely attach the provided Neck Strap NS-DC9 to the camera's strap lugs to prevent accidental drops.

### 2.4. Charging the Battery

Use the Battery Charger CB-2LZ to charge the NB-7L battery. Connect the charger to a power outlet and insert the battery. The charging indicator will show the charging status.

## 3. OPERATING THE CAMERA

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### 3.1. Power On/Off

Press the **POWER** button to turn the camera on or off.

### 3.2. Taking Photos

1. Select your desired shooting mode using the mode dial (e.g., Auto, Program, Aperture Priority, Shutter Priority, Manual).
2. Frame your shot using the 2.8-inch Vari-angle Pure Color System LCD or the optical viewfinder.
3. Press the shutter button halfway to focus, then press it fully to take the picture.

### 3.3. Zoom Function

Use the zoom lever around the shutter button to adjust the 5x optical zoom lens. The 28mm wide-angle capability allows for broader landscape shots.

### 3.4. Flash Modes

The built-in flash offers various modes, including auto, fill-in, slow sync, and red-eye reduction. Adjust flash settings via the camera's menu.

### 3.5. Video Recording

The PowerShot G12 records 720p HD video with stereo sound. To start recording, press the dedicated movie button. Connect to an HDTV using the mini-HDMI connector (AV Cable AVC-DC400ST) for playback.

### 3.6. Advanced Shooting Features

- **Canon HS SYSTEM:** Combines the 10.0 Megapixel CCD sensor and DIGIC 4 Image Processor for improved low-light performance and reduced noise.
- **RAW + JPEG:** Capture images in both RAW and JPEG formats simultaneously for greater post-processing flexibility.
- **Hybrid IS:** Corrects both angular and shift camera shake, particularly useful for close-up photography.
- **High Dynamic Range (HDR):** Combines multiple exposures into a single image to balance highlights and shadows in high-contrast scenes. A tripod is recommended for this mode.

## 4. MAINTENANCE

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### 4.1. Cleaning the Camera

- Use a soft, lint-free cloth to clean the camera body.
- For the lens, use a lens brush or a blower to remove dust, then gently wipe with a lens cleaning cloth. Avoid touching the lens surface with your fingers.

### 4.2. Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging the battery frequently to prolong its lifespan.

### 4.3. Memory Card Care

- Always format new memory cards in the camera before first use.

- Avoid removing the memory card while the camera is writing data.

## 5. TROUBLESHOOTING

If you encounter issues with your Canon PowerShot G12, refer to the following common solutions:

- **Camera does not power on:** Ensure the battery is fully charged and correctly inserted.
- **Cannot take pictures:** Check if a memory card is inserted and has sufficient free space. Ensure the lens cap is removed.
- **Images are blurry:** Verify that the camera is in focus. Check for sufficient lighting or enable image stabilization.
- **Flash does not fire:** Confirm the flash mode is set appropriately (not 'Flash Off').

For more detailed troubleshooting, consult the Digital Camera Solution CD-ROM or Canon's official support resources.

## 6. SPECIFICATIONS

Feature	Specification
Model Name	Canon G12
Model Number	4342B001
Effective Still Resolution	10 MP
Optical Zoom	5x
Image Stabilization	Optical (Hybrid IS)
Minimum Focal Length	28 Millimeters
Maximum Focal Length	140 Millimeters
Screen Size	2.8 Inches (Vari-angle LCD)
Video Resolution	HD 720p
Supported File Format	JPEG, RAW
Battery Type	Lithium-Ion NB-7L rechargeable battery
Connectivity Technology	USB, HDMI

## 7. WARRANTY AND SUPPORT

### 7.1. Limited Warranty

The Canon PowerShot G12 comes with a 1-Year Limited Warranty. Please retain your proof of purchase for warranty claims.

### 7.2. Customer Support

For further assistance, technical support, or service inquiries, please visit the official Canon support website or

contact their customer service.