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› [Canon](#) /

› [Canon PowerShot G16 Digital Camera User Manual](#)

### Canon G16 (Model 8406B001AA)

# Canon PowerShot G16 Digital Camera User Manual

Model: G16 (8406B001AA)

## INTRODUCTION

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The Canon PowerShot G16 is an advanced compact digital camera designed for high-quality still photography and Full HD video recording. It features a 12.1 Megapixel High-Sensitivity CMOS sensor and the DIGIC 6 Image Processor, forming the Canon HS SYSTEM for excellent low-light performance. With a versatile 5x optical zoom lens and built-in Wi-Fi, the G16 offers both performance and convenient sharing capabilities.

## WHAT'S IN THE BOX

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Upon unboxing your Canon PowerShot G16, please ensure all the following items are present:

- PowerShot G16 Digital Camera
- Battery Pack NB-10L
- Battery Charger CB-2LC
- Neck Strap NS-DC11
- One Year Limited Warranty Card



Figure 1: Included items in the Canon PowerShot G16 package.

## SETUP

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### 1. Charging the Battery

Insert the Battery Pack NB-10L into the Battery Charger CB-2LC. Plug the charger into a power outlet. The charging indicator light will show the charging status and turn off when charging is complete. Ensure the battery is fully charged before first use.

### 2. Inserting Battery and Memory Card

Open the battery/card compartment cover on the bottom of the camera. Insert the charged battery pack firmly until it clicks into place. Insert an SD/SDHC/SDXC memory card into the card slot with the label facing the correct direction until it clicks. Close the compartment cover securely.

### 3. Initial Power On

Press the ON/OFF button located on the top of the camera. The lens will extend, and the LCD screen will power on. Follow any on-screen prompts for initial setup, such as setting the date and time.



Figure 2: Front view of the Canon PowerShot G16.



Figure 3: Rear view of the Canon PowerShot G16 with LCD and controls.

### Basic Controls and Shooting Modes

The PowerShot G16 offers a range of shooting modes accessible via the mode dial on top of the camera. These include:

- **Smart AUTO:** Automatically selects the best settings for optimal quality.
- **Program AE (P):** Access advanced exposure compensation features while shooting mostly automatically.
- **Shutter-priority AE (Tv):** You select the shutter speed, and the camera finds the appropriate aperture.
- **Aperture-priority AE (Av):** You set the aperture, controlling depth-of-field, and the camera automatically selects the shutter speed.
- **Manual (M):** Complete control of exposure, selecting both aperture and shutter speed manually.
- **Custom (C1/C2):** Define and store your own settings.
- **Movie:** Record video in stereo sound.
- **Special Scene Modes:** Includes Portrait, Smart Shutter, Star shooting modes (Star Nightscapes, Star Trails, Star Time-Lapse Movies), Handheld Night Scene, Underwater, Snow, and Fireworks.
- **Creative Filters:** Offers effects like Toy Camera Effect, Poster Effect, Monochrome, Fisheye Effect, Miniature Effect, Background Defocus, Soft Focus, Super Vivid, and High Dynamic Range (HDR).
- **Hybrid Auto:** Records up to four seconds of video with each still image, combining them into a highlight reel.



Figure 4: Angled view showing the mode dial and other controls.

### Image and Video Capture

The G16 captures stunning 12.1 Megapixel still images and 1080p Full HD video at 60 frames per second (fps). The 5x optical zoom lens (28-140mm equivalent) with a bright f/1.8-2.8 aperture allows for versatile shooting from wide-angle to telephoto, even in low light. Intelligent IS automatically optimizes image stabilization for various shooting conditions, ensuring clear and steady results.

## Focusing

The camera features a High Speed AF system for quick and accurate focusing. For manual control, MF Peaking provides a visual aid by outlining focused subjects, making fine-tuning easier. The Dual Axis Electronic Level helps ensure your shots are perfectly level.

## Wi-Fi Connectivity

Built-in Wi-Fi allows for easy sharing of photos and videos. You can connect directly to iOS and Android devices using the free Canon CameraWindow app to upload images to social media platforms (Facebook, Twitter, YouTube, Flickr) or send them to email. Images can also be transferred to a computer or printed wirelessly to PictBridge certified printers.

## MAINTENANCE

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### Cleaning the Camera

Regularly clean the camera body with a soft, dry cloth. For the lens, use a lens brush or blower to remove dust, followed by a lens cleaning cloth and solution if necessary. Avoid touching the lens surface directly with your fingers. Keep the LCD screen clean using a soft, lint-free cloth.

### Battery Care

To prolong battery life, avoid exposing the battery to extreme temperatures. Store the battery in a cool, dry place when not in use. If the camera will not be used for an extended period, remove the battery.

### Storage

Store the camera in a dry, well-ventilated area, away from direct sunlight, high temperatures, and humidity. Use a camera bag or case to protect it from dust and physical damage.

## TROUBLESHOOTING

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If you encounter issues with your Canon PowerShot G16, consider the following common solutions:

- **Camera not turning on:** Ensure the battery is fully charged and correctly inserted.
- **Images are blurry:** Check focus settings, ensure sufficient lighting, and verify that Image Stabilization is active if shooting handheld.
- **Memory card error:** Reinsert the memory card, try a different card, or format the card (note: formatting will erase all data).
- **Wi-Fi connection issues:** Ensure the camera and connected device are within range and that the Canon CameraWindow app is updated.

For more detailed troubleshooting steps and solutions, please refer to the comprehensive User Manual (PDF) available for download.

## SPECIFICATIONS

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Feature	Specification
Model Name	8406B001AA
Photo Sensor Resolution	12.1 MP
Photo Sensor Size	1/1.7-inch

Feature	Specification
Optical Zoom	5x
Minimum Focal Length	28 Millimeters
Maximum Focal Length	140 Millimeters
Maximum Aperture	f/1.8-2.8
Image Stabilization	Optical
Video Resolution	FHD 1080p
Frame Rate	60 fps
Processor Description	DIGIC 6
Expanded ISO Range	80-12800
Connectivity Technology	USB, HDMI, Wireless (Wi-Fi)
Display Type	LCD
Screen Size	3 Inches
Flash Memory Type	SD/SDHC/SDXC
Item Weight	12.48 ounces

## WARRANTY AND SUPPORT

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The Canon PowerShot G16 Digital Camera comes with a **1-year limited warranty** covering both parts and labor. For warranty claims or technical support, please contact Canon customer service. Additional support resources, including the full User Manual and User Guide in PDF format, are available for download:

- [User Manual \(PDF\)](#)
- [User Guide \(PDF\)](#)