

Canon

PowerShot G2



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are you digital yet?™

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The heart of brilliance: PowerShot G2

Canon's new PowerShot G2 is a precise and powerful tool for professional and advanced amateur photographers who want a very high-resolution digital camera that can offer them the quality, performance, and reliability that they're accustomed to finding in fine 35mm SLR cameras.

The *1/1.8-inch 4-megapixel CCD* in the new Canon PowerShot G2 creates a postcard-sized image that displays no visible pixellation. Physically, the CCD is identical in size to the ones used in earlier Canon digital cameras, but it can accommodate 4.0 million pixels because the pixel size is considerably reduced. The result, of course, is a far more densely detailed image.

CCDs equipped with *primary color filters*, that is, filters for red, green and blue, provide excellent natural color reproduction, but tend to be less sensitive to light and produce noisier images



4.0 M Pixels

than CCDs equipped with complementary color filters. Canon has solved these problems with improved signal processing.

When you take a picture, take it easy.

As advanced as the technology is, this camera is easy to master. At every step, you know exactly what your PowerShot G2 sees and how it sees it. The image in the **LCD monitor** is true, bright, clear and colorful, and contained within a 1.8-inch frame. The vari-angle monitor lets you compose shots at a wide variety of angles: directly overhead, on the ground, or at waist level.

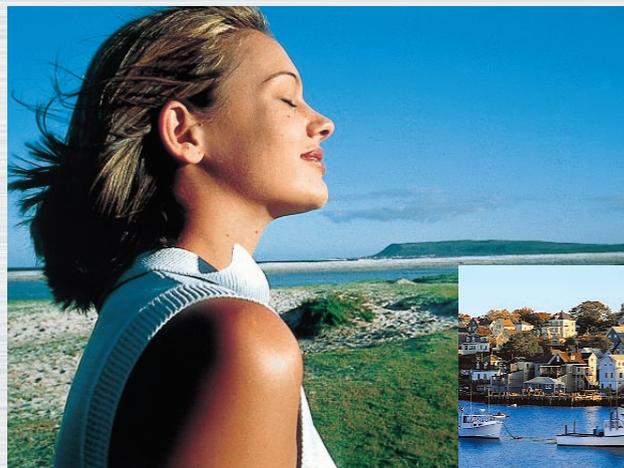
The LCD monitor also provides a convenient location for the PowerShot G2's advanced **Graphical User Interface (GUI)**, which clearly shows you the camera's status and settings. The interface even allows you to choose one of 12 languages for your setup guide.

Canon cameras have always encouraged instinctive shooting. Controls are logical, obvious, and easy to find. On the PowerShot G2 the **Main Dial** and **Mode Dial** are stacked together. Power On/Off, playback and PC mode settings are on the lower dial, shooting modes on the upper dial. A four-way **Omni Selector** gives fingertip control of frequently used functions like zoom in or image selection on playback.

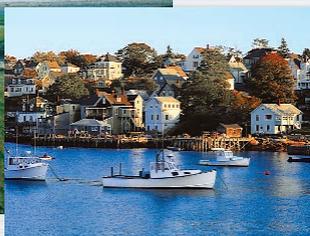


To add to the familiar feeling of a film-based camera, Canon provided the PowerShot G2 with a shutter sound, adjustable from silent to loud in five steps.

The camera's exterior is shaped to give you a firm, solid hand-hold. With the camera in shooting position, you have a steady and comfortable grip for framing your shot.



102mm*



34mm*



Digital 11x Zoom

Canon's longtime mastery of optical design is evident in the clarity and versatility of the 3x zoom lens. At a finger's touch, it goes from a wide angle that is the equivalent of 34mm in a 35mm camera to a telephoto length that is the equivalent of 102mm. A built-in digital tele-converter extends that range of zoom to an astounding 11x magnification.

* Approximately equivalent to 34-102mm in the traditional 35mm film format

3x
Optical Zoom
11x
Digital Zoom

"Automatic" does not mean "limited".



There are two different autofocus modes, both of which can be shut down so you can focus manually. In **Single mode**, battery power is conserved by shutting off the LCD monitor while the photographer uses the optical viewfinder. **Continuous mode** maintains a focused image on the LCD at all times.

In either mode, the user can select **single-point AF** for rapidly shooting a subject in the center of the frame, or 3-point selectable ranging AF. **3-point AF** allows selection of any of three points as the distance ranging point so that an off-center subject can be selected without having to first be centered and focused.



3-point AF

The PowerShot G2 also supports **Macro** photography at distances down to 2.4 inches at the wide end of the lens and to 7.9 inches at the telephoto end. The vari-angle LCD monitor makes framing macrophotographic shots easier.



Macro

Just as Canon gives you a choice of autofocus modes in the PowerShot G2, it now adds evaluation metering to your choices of automatic exposure systems. **Spot metering** and **Center-weighted averaging metering** measure the light with a strong emphasis on a central subject and a lesser emphasis on background. **Evaluation metering** divides the screen into blocks,



Spot metering

evaluates lighting factors and assigns the best exposure for each individual block.



Evaluation metering

Fast signal processing makes the PowerShot G2 feel much more like a film-based camera than any previous digital camera could. The dedicated digital signal processing IC (integrated chip) eliminates the old compromise between long processing times and poor image quality. Combined with the camera's buffer memory, the high-speed IC allows shots at 1.6-second intervals in single capture mode and up to 5 high-quality images at 2.5 images per second in high-speed continuous mode.

The PowerShot G2 will record images in any of three levels of JPEG compression – normal, fine, superfine – or as CCD RAW files. This allows you to decide between having more storage space available for more images, or a superior image quality for fewer pictures. RAW image processing, which compresses a signal without any loss of resolution, has been improved to require less memory than earlier systems used.

Pick your exposure.

Few qualities affect the creative impact of a photograph as powerfully as the choice of exposure. So of course Canon doesn't limit you to an automatically "correct" exposure. You have several choices for manipulating the light and heat of your image.

Exposure Compensation lets you adjust the ambient exposure up or down by up to two stops in 1/3-stop increments. **Flash Exposure Compensation** gives you the ability to control flash illumination for richer fill-in flash photography. **Automatic Exposure Bracketing** automatically captures three images, one each at under and over the meter's normal setting up to +/-2 stops in 1/3-stop increments.



+1/3



±0



-1/3

AE Lock and **FE Lock** let you store ideal auto exposure and flash settings before you shoot.



without AE Lock



The PowerShot G2's built-in flash with five distinct shooting modes: On, Off, Auto, Red-Eye Reduction Auto, Red-Eye Reduction On.

When more speed, range or brilliance is needed, an external hot-sync shoe connection makes the camera compatible with Canon's EX-Series Speedlites.



without Red-Eye Reduction

The white balance is set very precisely to either preset or custom settings. There are six preset conditions that correspond to most lighting conditions: sunny, cloudy, tungsten, fluorescent, fluorescent H and flash. You can also perform a manual custom white balance.



When you're shooting in the Creative zone, the camera provides a familiar guide to sensitivity levels by relating them to the ISO settings that you've used on film cameras, allowing you to select ISO 50, 100, 200 or 400.

Endless photographic possibilities.

The versatility of Canon's EOS cameras has made them essential tools for thousands of professional photographers. The same versatility is one of the outstanding features of the PowerShot G2.



Creative Zone

M Manual

The user has complete control, setting both aperture and shutter speed.



AV Aperture Priority

The user sets the aperture, controlling depth-of-field. The camera selects the shutter speed.



Tv Shutter Speed Priority

The user selects the shutter speed. Canon's noise reduction system makes a very slow speed possible, as long as 15 seconds.



P Program

The camera selects aperture and shutter speed automatically.



Image Zone

AUTO Auto

The camera sets all parameters for the user.



Pan-focus

Fixed focal length (wide end) and hyperfocal distance setting is used for maximum depth-of-field. Shooting speed is faster because AF is disabled.



Portrait

The camera opts for a larger aperture, focusing more exclusively on the subject and blurring the background.



Landscape

For greater depth-of-field, the camera opts for a smaller aperture.



Night Scene

Background exposure is combined with slow-sync flash for a subject in front of a night scene or sunset.



Photo Effect

The camera alters the color saturation to create black and white images, sepia images, neutral or vivid color images.



Stitch Assist

Easy-to-execute, precise combination of images to create a panoramic effect.



Movie

Two modes with sound, both recorded at 15 fps. QVGA mode allows up to 30 seconds of recording; Q2VGA allows up to 120 seconds.

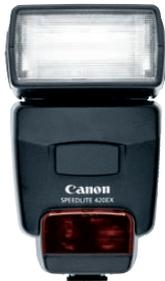


A comprehensive system.

Canon designed the PowerShot G2 to be the heart of a complete photographic system. These are some of the other system components that are available to you.

EX-Series Speedlites

Add more brilliance, range and speed to your photography with an external flash. The PowerShot G2 has an external hot shoe that will accommodate the ***EOS Speedlites 220EX, 380EX, 420EX*** and ***550EX***, as well as the Off-Camera Shoe Cord 2.



Macro Ring Lite MR-14EX

The ***Macro Ring Lite MR-14EX**** fits around the lens of the PowerShot G2 for a more delicate light distribution for macrophotography.



* Requires Conversion Lens Adapter LA-DC58 and Macro Lite Adapter 58C in order to mount it on the camera.

BP-511 and BP-512 Battery Packs

The PowerShot G2 uses the high-capacity lithium-ion battery packs, ***BP-511*** (supplied) and ***BP-512***. Both are available as optional accessories.



Charge Adapter/Car Battery Cable Kit

Operate your camera directly from your car battery, or use the car battery to recharge the camera's lithium-ion batteries as you drive. The charge adapter may also be used on household current together with the camera's charger and AC cable.



Converter Lenses

For truly sweeping views, powerful telephoto effects, or extreme close-ups, Canon's family of converter lenses greatly extend the versatility of your PowerShot G2. The ***Wide Converter WC-DC58**** provides a focal conversion ratio of 0.8x, equivalent to a 28mm lens on a 35mm camera. The ***Tele Converter TC-DC58**** has a 1.5x conversion factor, extending the telephoto power of the camera to the equivalent of 150mm. And the ***58mm Close-up Lens 250D**** allows you to focus on a subject as close as 4.7 inches from the camera.



* All conversion lenses require Conversion Lens Adapter LA-DC58.

Wireless Controller

Want a great self-portrait? Turn the LCD monitor to the front of the camera, set the self-timer and use the wireless controller to zoom in or out.



Storage Media

The PowerShot G2 stores images on ***CompactFlash™ (CF) memory card Type I or II*** in either CCD RAW Mode or in Normal, Fine or SuperFine JPEG compression modes. Greater image storage capacity is available with the use of an ***IBM® 340MB*** or ***1 GB Microdrive™***.



Computer Connections

Connect directly to either Windows or Macintosh computers with the supplied ***USB cable***. Macintosh OS 9 users can take advantage of the ***USB mounter*** which allows the system to treat the camera as a card reader and download images directly into the Mac. The USB WIA driver offers similar capabilities for Window ME users.

Print Solution

Card Photo Printer CP-10



The PowerShot G2 doesn't even need a computer to produce high-quality prints. The compact **Card Photo Printer CP-10** delivers high-resolution – 300dpi x 300dpi – credit card-sized images directly from the camera. No computer interface is necessary, just a single direct interface cable from the camera to the printer. A special cropping feature allows you to adjust the size of the image you want printed so that only the image that appears within the frame of the LCD monitor is printed. And with the optional **Car Battery Adapter CBA-CP100** you can even print when you're on the road.



4 Types of Prints



Borderless



Bordered



Full-sized label



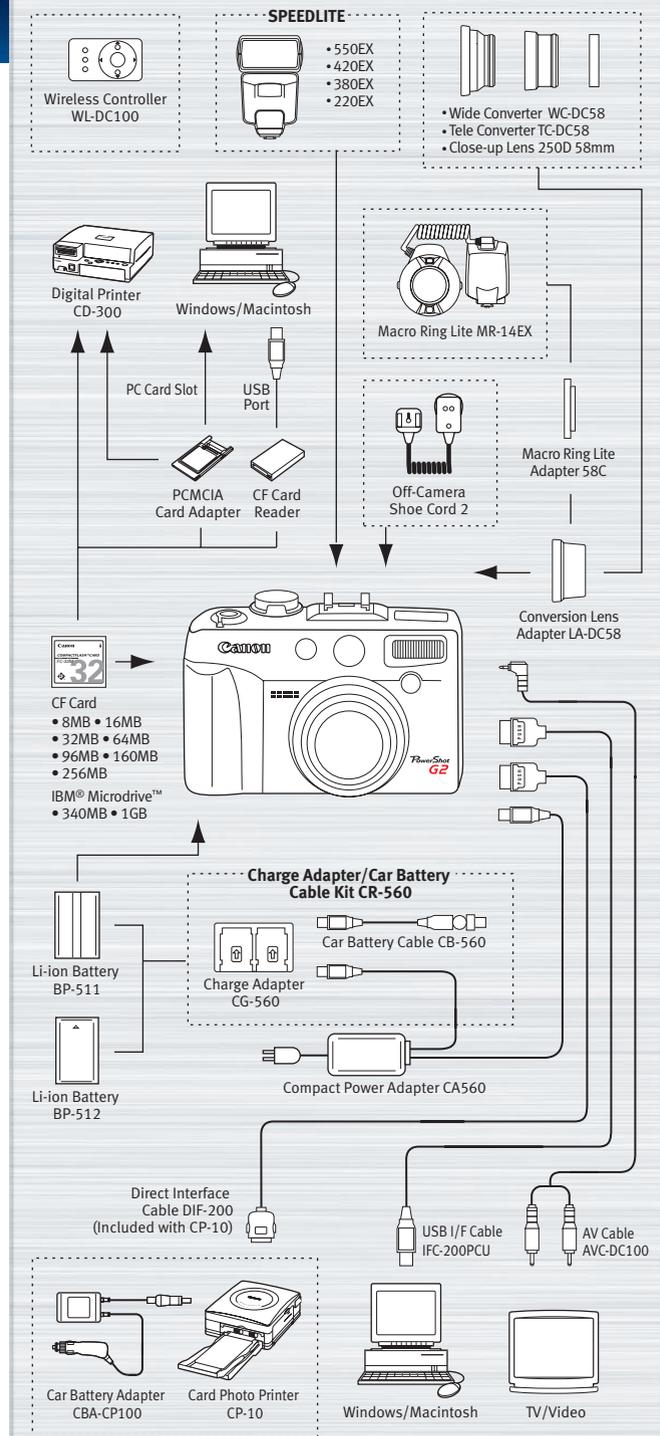
8 Mini-labels

CD-300 Printer

Another way to get great prints without a computer interface is to print directly from the G2's CompactFlash™ card. Just insert the card into the **CD-300** and choose 4"x 6", 4"x 10" or multi-image print sizes.



Connection Diagram



More options with bundled software.

ZoomBrowser EX (PC)/ImageBrowser (Mac)

Both programs support easy downloading, browsing, archiving, photo retouching and slideshows. Both also enable automatic resizing and attachments of images to email.



PhotoRecord

This application provides auto layout printing for Windows users and allows the insertion of text anywhere on the page.

PhotoStitch

PhotoStitch 3.1 enables the creation of panoramic shots composed from a sequence of images. The composite image may be horizontal, vertical or 2 x 2.



RemoteCapture

Using a USB-interface PC and RemoteCapture, the camera can be remotely controlled from a computer. Operations include shutter release; lens zooming; confirming camera parameters; setting white balance, resolution/JPEG compression, macro, flash and exposure compensation.

RAW Image Converter 1.1

Canon's dedicated RAW Image Converter (PC/Mac) supports batch conversion of PowerShot or D30 RAW files to TIFF or other formats without using ZoomBrowser, ImageBrowser or other image-processing programs. Compatible with Windows 98/Me/2000 as well as Mac OS 8.6 through 9.1.

Selected third-party applications bundled with the PowerShot G2 include *Adobe Photoshop 5.0 LE* for photo retouching and *Apple QuickTime 5.0* for movie playback.



Supplied Accessories

- A. PowerShot G2 Body
 - B. Neck Strap NS-DC300
 - C. Video Cable AVC-DC100*
 - D. Interface Cable IFC-200PCU*
 - E. Digital Camera Solution CD-ROM
 - F. Adobe Photoshop LE CD-ROM
 - G. Lithium Battery Pack BP-511*
 - H. Compact Power Adapter CA-560*
 - I. CompactFlash Card FC-32M*
 - J. Wireless Controller WL-DC100
 - K. Lens Cap
 - L. Case for CompactFlash Card (Not Shown)
 - M. User's Manual (Not Shown)
 - N. Battery Pack Case (Not Shown)
- *Also available as an optional accessory.



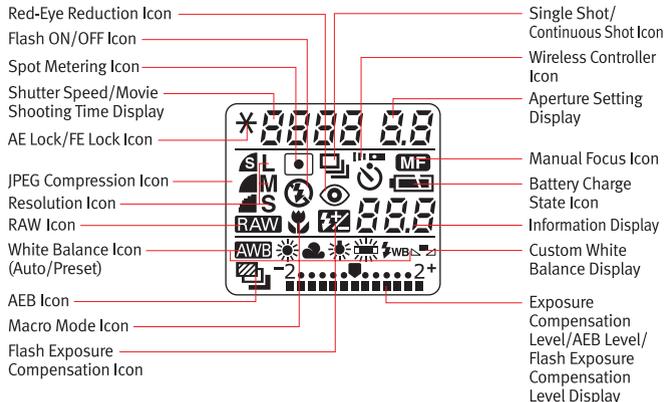
Optional Accessories



Nomenclature



LCD Panel



Specifications

Type: Compact digital still camera with built-in flash and 3x optical zoom lens and 3.6x digital zoom.
Image Capture Device: 4.0 M pixel, 1/1.8 inch charge coupled device (CCD).
Color Depth: 8 bits x 3 colors (10-bit signal processing).
Resolution (Recording Pixels): 640 x 480 pixels (Small), 1,024 x 768 (Medium Low), 1,600 x 1,200 (Medium High), 2,272 x 1,704 (Large), Movie: 320 x 240 or 160 x 120.
Sensitivity: Equivalent to ISO 50/100/200/400.
Image Quality Modes: Normal, Fine, SuperFine.
File Format: DCF*, DPOF (Direct Print Order Format).
Image Recording Format: Still Image: JPEG or Format).
Recording Media: CompactFlash™ (CF) Card, Type I and II.
Image Storage Capacity:

	Small/N	Small/F	Small/SF	Med Low/N	Med Low/F	Med Low/SF	Med High/N	Med High/F
File Size	84KB	150KB	249KB	170KB	320KB	570KB	278KB	558KB
FC-8M	83	47	29	42	23	12	26	13
FC-16M	165	94	58	84	46	25	52	26
FC-32M	337	196	120	174	94	53	108	54
FC-64M	677	394	241	349	189	107	217	109
FC-128M	1,355	789	483	700	379	215	435	219
340MB (IBM® 340MB Microdrive™)	3,639	2,183	1,323	1,898	1,064	597	1,212	614

	Med High/SF	Large/N	Large/F	Large/SF	RAW	Movie/Low	Movie/High
File Size	1,002KB	556KB	1,116KB	2,002KB	2,862KB	60KB sec.	140KB sec.
FC-8M	7	13	6	3	1	112 sec.	30 sec.
FC-16M	14	26	13	7	4	223 sec.	61 sec.
FC-32M	30	54	27	14	10	457 sec.	124 sec.
FC-64M	61	110	54	30	20	916 sec.	250 sec.
FC-128M	123	220	110	61	42	1,834 sec.	502 sec.
340 MB (IBM® 340MB Microdrive™)	343	614	309	172	120	4,852 sec.	1,408 sec.

Note: N=Normal F=Fine SF=SuperFine

Storage capacity varies depending on the scene or the subjects.

This data is estimated from Canon's standard shooting conditions.

Shooting Modes: Auto, Creative (P, Av, Tv, M), Image (Pan-focus, Portrait, Landscape, Night Scene, Photo Effect: Vivid, Neutral, Sepia, Black & White; Stitch Assist, Movie), Continuous (1.5 fps), High-speed Continuous (2.5 fps).

Playback Modes: Single, Index (9 thumbnails), Magnification (approx. 3x or 6x on built-in LCD monitor) or Slide Show.

Erase Modes: Single Image, All Images.

Interfaces: USB, Audio/Video Output (NTSC or PAL selectable, monaural audio) and CF card slot (complied with CF Type II standard). Direct connection to Canon Card Photo Printer CP-10 (no computer required).

Lens: 7-21mm, f/2.0-f/2.5 zoom lens (equivalent to 34-102mm in 35mm format).

Shutter Speed: 1/5-1/1000 sec. Slow shutter of 1.3 sec. and more operates with noise reduction.

Autofocus: TTL (Through-The-Lens) AF. AF lock and Manual focus are available.

Focus Range: Normal AF: 2.3ft./70cm to infinity; Macro AF: 0.2ft./6cm (WIDE), 0.7ft./20cm to 2.3ft./70cm (TELE); Manual focus: 0.2ft./6cm (WIDE), 0.7ft./20cm to infinity (TELE).

Light Metering Method: Evaluation metering, Center-weighted average metering or Spot metering.

Exposure Control: Program AE, Shutter priority AE, Aperture priority AE or Manual exposure control; AE Lock is available.

Compensation: +/- 2.0 EV in 1/3-step increments. Auto Exposure Bracketing (AEB) is available.

Built-in Flash: Operation modes: Auto, Red-Eye Reduction Auto, Red-Eye Reduction ON, ON or OFF. Flash Range: 0.7 - 4.5m (WIDE), 0.7 - 3.6m (TELE) (When sensitivity is set to ISO 100 equivalent.)

Terminals for External Flash: Sync-terminals at accessory shoe. Use of following external flashes is recommended: Canon Speedlite 220EX, 380EX, 420EX and 550EX.

White Balance Control: TTL Auto White Balance, Pre-set White Balance (available settings: Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, or Flash), or Custom White Balance.

Optical Viewfinder: Real-image optical zoom viewfinder, approx. 84% coverage. Magnifications: 0.31x (WIDE) to 0.93x (TELE).

LCD Viewfinder: 1.8-inch low-temperature polycrystalline silicon TFT color LCD.

Power Sources: Rechargeable lithium-ion battery (BP-511 or BP-512) or AC.

Dimensions: 4.8(W) x 3.0(H) x 2.5(D) in. / 120.9(W) x 76.6(H) x 63.8(D) mm.

Weight: Approx. 14.8oz./425g (camera body only).

* "DCF" is an abbreviation of "Design rule for Camera File system" standardized by Japan Electronics and Information Technology Industries Association (JEITA).

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