

Canon

PowerShot G9
DIGITAL CAMERA

Canon
*image*ANYWARE

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With an unprecedented level of power, control and elegance, Canon's new PowerShot G9 is the most advanced PowerShot camera ever introduced. This compact, 12.1-megapixel gem incorporates Canon's most advanced technologies for speedy image capture and processing, plus the cleanest, largest image files ever to come among its class. With a 6x Optical Zoom with Genuine Canon Optical Image Stabilizer, Canon's DIGIC III Image Processor with Face Detection AF/AE/FE, a stunning 3.0-inch PureColor LCD II screen and the ability to save both JPEG and RAW files, the PowerShot G9 offers no-compromise, SLR level performance that goes just about everywhere. It's the perfect camera for brilliant photography every day.



PHOTOGRAPHIC GENIUS

Tremendous Photographs



12.1
MEGA
PIXELS

With 12.1-megapixel files, offering images of 4000 x 3000 pixels, the PowerShot G9 provides a file that is perfect for almost any application. It can easily generate prints up to size 16" x 20".

The PowerShot G9 offers best-in-class resolution with an all-new Ultra-High Definition **12.1-megapixel** CCD sensor with lossless **RAW** capabilities. Combined with Canon's DIGIC III Image Processor, the G9 creates tremendous image files that can be printed poster-size, offer more than enough resolution for cropping and offer unlimited post-processing possibilities with RAW files and Canon's Raw Image Task software. With RAW files, no matter what setting is used for a shot, parameters such as color balance, noise reduction, exposure and sharpness can be revisited and changed on a computer screen. The G9 is designed to speedily process image data, capturing both JPEG and RAW images simultaneously so each image is saved quickly and the camera is ready to capture another shot right away. You can enjoy image quality and performance on par with professional digital SLR cameras without the bulk.

RAW

For the ultimate in convenience, the PowerShot G9 can capture RAW images. This feature is perfect in that it maintains a pristine RAW file for precise post-processing yet allows for easy sharing and quick printing without post-production from JPEG files. As for another advantage of shooting in RAW format, you can control noise that tends to occur when shooting high speed or long exposure (Adaptive Noise Control level between 0 and 10). The RAW images can be sharper than JPEG images.

SDHC Memory Card

The PowerShot G9 is compatible with the newest SDHC memory cards, which are available in sizes of more than 4GB, and can transfer files at a minimum of 6MB per second with a Class 6 Card.



Uncompromised Canon Optics

With a Canon 6x optical zoom lens (7.4–44.4mm f/2.8–4.8) with a 35mm film equivalent of 35–210mm, and Optical Image Stabilizer Technology, the PowerShot G9 is suitable for almost anything including landscape, action, portrait and macro photography. It can focus from 0.39 inch (Macro mode) to infinity, and utilizes Canon's superlative TTL AF system. It sports Canon's exclusive Optical Image Stabilizer that detects and effectively cancels camera shake, perfect for shooting in dim lighting situations, indoors without a flash and at the end of the zoom range. In addition to Canon's Optical Image Stabilizer, the G9's zoom lens incorporates many of Canon's most sophisticated optical technologies to achieve nothing short of Canon clarity: consistent brightness and sharpness throughout the zoom range. Precision-engineered elements reduce and correct aberrations, while Canon's SR coating technology virtually eliminates ghosting. Simply put, this lens, paired with the G9's 12.1-megapixel CCD sensor is a perfect match.



Canon's Optical Image Stabilizer technology offers superior performance in all situations. It features a ceramic ball support system for fluid operation, and effectively adds approximately three stops (or three shutter levels) to the exposure. The benefits can be seen immediately when shooting at the long end of the zoom range, or in less than optimal lighting conditions, making photographs one might not think possible—easy.



210mm



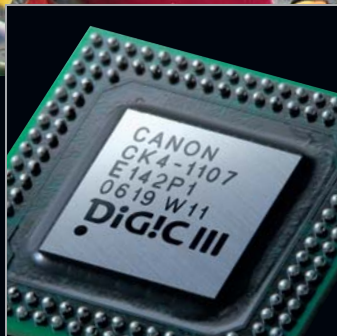
35mm

6x OPTICAL ZOOM

Safety Zoom

The PowerShot G9's lens also features Canon's exclusive Safety Zoom* function, which makes using the G9's digital zoom feature viable without compromising image quality. With Safety Zoom, you can digitally extend the camera's 6x optical zoom range without interpolation that could affect final image quality.

* Only available at recording pixel of M1 or smaller size.



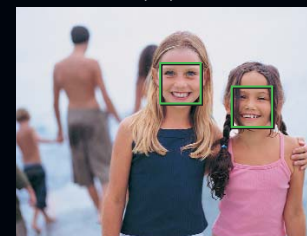
DIGIC III Image Processor

The DIGIC III Image Processor is the latest iteration of Canon's own DIGIC technology and delivers superior image quality, ultra-responsive performance and extended battery life. DIGIC III Image Processor provides a speedier interface plus more sophistication in instant image analysis and correction.

ISO1600



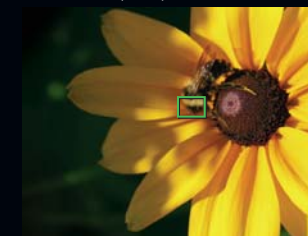
Face Detection AF/AE/FE



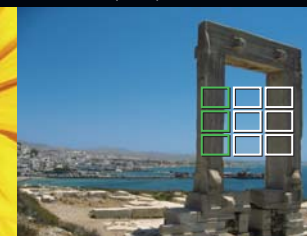
Face Selector AF



FlexiZone AF (small)



9-Point AiAF (small)



Digital Intelligence

While elegant and simple to use, the PowerShot G9 hosts a number of sophisticated technologies: Canon's *Face Detection AF/AE/FE* analyses the image, finds faces, tracks them and selects the appropriate focus for them. It controls exposure (and flash) to ensure proper illumination of both the faces and the overall scene, eliminating the common problem of backlit or over-exposed faces. Also the G9 has a new Face Selector feature which you can manually choose and keep focusing on a specific face within the multiple faces in the frame. With an ISO Dial, it's easy to change ISO settings up to ISO 1600. There's even an Auto ISO Shift feature to ensure the best exposure possible and a Red-eye Correction feature that corrects red-eye during playback.



Superior AF

The PowerShot G9 features Canon's newest evolution in focus: AF Frame size selection. Now you have a choice of either normal or small AF areas, which makes it easier to achieve sharp focus in very specific areas of the frame. Combined with Face Detection, 9-point AiAF or with FlexiZone AF, the choice of focus point size greatly enhances your options for any given situation.

Unprecedented Flexibility

No PowerShot camera has ever offered the instinctive, easy to use and yet powerful interface of the PowerShot G9. A true extension of your eye, the G9 has a **Mode Dial**, a control dial and an ISO Dial for instant ISO setting changes. The G9's improved **3.0-inch PureColor LCD II** screen offers a tremendous live preview of your image with all shooting data displayed. It even offers a real-time histogram to help fine-tune exposure and it can display the camera's ISO, aperture and shutter speed. The G9's Image Inspection Tool has been enhanced to enable you to check critical focus points immediately, with detected faces and focus points displayed prominently during playback. You can even choose to resize the images in the camera, for faster transmission or to clear up space on your memory cards.



PureColor II

The G9's 230,000 pixel 3.0-inch PureColor LCD II features improved contrast and color reproduction, which greatly increases the viewing angle for composing shots above or below the head. On the face of the LCD, there is a protective cover finished with multiple coatings to prevent smudging, scratches and reflection.



PureColor LCD II



Conventional LCD



Shooting Modes

The PowerShot G9 offers 9 different shooting modes, plus 16 different Special Scene modes for the ultimate in flexibility. You will enjoy being able to go directly into Aperture-priority, Shutter-priority, Custom and Manual modes, as well as the automatic functions tailored for a variety of photographic situations.

P Program



AV Aperture Priority



TV Shutter Speed Priority



Creative Options

While the PowerShot G9 is a robust, adaptable and powerful camera in its own right, Canon offers a number of Speedlite flashes and optional accessories to enhance and extend the G9's capabilities. Thanks to its built-in hot shoe, the PowerShot G9 works seamlessly with Canon's *EX Series Speedlite* flashes and has access to their features through the camera's LCD. The G9 can use FP flash, FE lock, FE compensation, and even manual flash metering (with Speedlite 580EX II attached), extending the G9's use as a powerful, creative photographic tool. The G9 is also compatible with wide converter and tele converter lenses, and Waterproof Case. Moreover, connect the camera to a PictBridge compatible printer, and print large-format stunning images directly from the camera just by pressing the Print/Share Button. There's almost nothing the PowerShot G9 can't do.

Speedlite 580EX II

The Speedlite 580EX II adds both power and lighting flexibility to the G9 with ability to control flash settings from camera's LCD.



Conversion Lenses

The PowerShot G9 is compatible with Wide Converter WC-DC58B* for a wide focal length of 26mm (35mm equivalent) and Tele Converter TC-DC58C* for a telephoto range of approximately 420mm (35mm equivalent).



Waterproof Case

With perfectly sealed controls, Canon's Waterproof Case WP-DC21 can access most of the PowerShot G9's features, deep underwater. Optional Weights WW-DC1 can be used to control buoyancy.



External Flash Capabilities

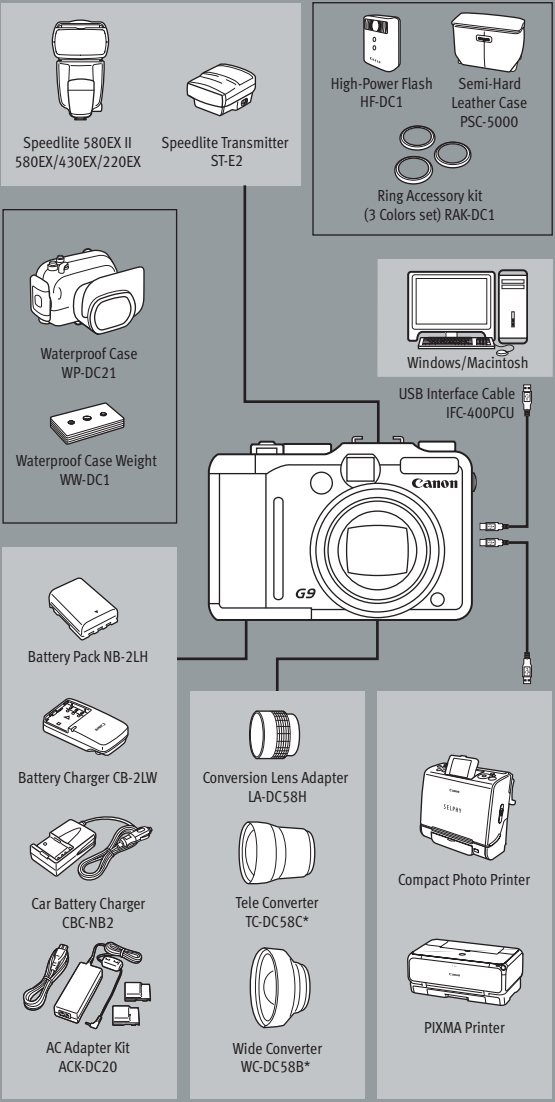
The PowerShot G9 has an external hot shoe which accommodates the Speedlite 580EX II, 580EX, 430EX and 220EX. All of the external flash units with E-TTL metering capabilities add more range and speed. The Speedlite Transmitter ST-E2 enables to control multiple slave flash photography that offers bounce flash capability for pro-quality, creative but natural lighting.



Speedlite Transmitter ST-E2

PowerShot G9 with Speedlite 580EX II and Wide Converter WC-DC58B

System Chart



* Conversion Lens Adapter LA-DC58H required.

For More Creative Control

Manual Focus, Safety MF

For critical focus, the PowerShot G9 offers manual focusing. When engaged, the center of the frame is enlarged on the G9's 3.0-inch LCD, allowing you to select the exact distance at which you wish to focus. Safety MF helps during manual focus by performing fine adjustments when pressing the shutter button half way.



Continuous Shooting

Continuous shooting mode settings to accommodate the broadest range of shooting situations in easy access. In normal mode, it shoots at approximately 1.5 fps; in AF mode, it can shoot 0.7 fps while maintaining proper focus; in LV mode it can shoot 0.8 fps with manual focus in Large/Fine mode.



Safety Shift

The PowerShot G9's refined Safety Shift feature ensures that exposures will come out correctly, no matter the setting. For example if you choose a particular shutter speed in Shutter-priority mode and the light level does not permit the camera to set a correct aperture value, the G9 will modify the shutter speed to achieve a correct exposure.

AF/FE Lock

It features a dedicated AE/FE lock, which enables you to set the exposure (with or without flash) and then recompose and focus the camera, while maintaining the chosen exposure parameters. It's perfect for use in tricky lighting situations.



Specifications

Camera Type: Compact digital still camera with built-in flash, 6x Optical / 4x Digital / 24x Combined Zoom with Optical Image Stabilizer System
Image Capture Device: 12.1 Megapixel, 1/1.7 inch type Charge Coupled Device (CCD) Total/Effective Pixels: Approx. 12.4 Megapixels/12.1 Megapixels
Focal Length: 7.4–44.4mm f/2.8–4.8 (35mm film equivalent: 35–210mm)
Focusing Range: Normal: 1.6 ft./50cm–infinity; Macro: 0.39 in.–1.6 ft./1–50cm (W)
Viewfinder: Real image optical zoom viewfinder
LCD Monitor: 3.0-inch low-temperature polycrystalline silicon TFT color LCD with wide viewing angle
LCD Pixels & Coverage: Approx. 230,000 pixels, 100%
Brightness Adjustment: 15 levels. Quick-bright LCD
Shutter Speed: 15–1/2500 sec. (settable in Tv and M)
Sensitivity: Auto, High ISO Auto, ISO 80/100/200/400/800/1600 equivalent (Standard output sensitivity. Recommended exposure index)
Exposure Control Method: Program AE, Shutter Speed-Priority AE, Aperture-Priority AE, Manual; AE Lock, Safety Shift, Auto ISO Shift
White Balance Control: Auto, Preset (Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater), Custom1, Custom2
Built-in Flash: Auto, Auto w/ Red-eye Reduction, Flash On, Flash On w/ Red-eye Reduction, Flash Off; FE lock, Safety FE
Shooting Modes: Auto, P, Av, Tv, M, C1, C2, Special Scene (Portrait, Landscape, Night Scene, Sports, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater, Indoor, ISO 3200, Kids & Pets, Night Snapshot, Color Accent, Color Swap), Stitch Assist, Movie My Colors: Vivid, Vivid Blue, Vivid Green, Vivid Red, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Custom
Self-Timer: Activates shutter after an approx. 2-sec./10-sec. delay, Custom
Storage Media: SD/SDHC Memory Card, MultiMediaCard, MMC Plus Card, HC MMC Plus Card File Format Design rule for camera file system, DPOF Version 1.1
Image Quality Mode: Normal, Fine, SuperFine, RAW
Number of Recording Pixels: Still Image: 4,000 x 3,000 (Large), 3,264 x 2,448 (Medium 1), 2,592 x 1,944 (Medium 2), 1,600 x 1,200 (Medium 3), 640 x 480 (Small), 4,000 x 2,248 (Widescreen); Movie: 1024 x 768 (15 fps), 640 x 480 (30 fps/30 fps LP), 640 x 480 (Time Lapse mode 2 hours at 0.5 fps/1 fps), 320 x 240 (30 fps) available up to 4GB or 60 minutes per clip, 160 x 120 (3 minutes at 15 fps)
Computer Interface: USB 2.0 Hi-Speed (mini-B jack)
Video Out & Audio Out: NTSC/PAL, Monaural
Power Source: Rechargeable Lithium Battery NB-2LH, AC Adapter Kit ACK-DC20

Shooting Capacity: Still Image: approx. 240 shots (NB-2LH/LCD on)*, approx. 600 shots (NB-2LH/LCD off). *The above figures comply with CIPA testing standards and apply when fully-charged batteries are used.
Operating Temperature & Humidity: 32–104°F/0–40°C, 10–90%
Dimensions (W x H x D) & Weight: 4.19 x 2.83 x 1.67 in./106.4 x 71.9 x 42.5mm, Approx. 11.29 oz./320g (camera body only)
System Requirement:
WINDOWS® OS: Microsoft Windows 2000 SP4/XP SP2/Vista; Computer Model: The above OS should be pre-installed on computers with built-in USB ports; CPU: Pentium® 500MHz or higher processor (Windows 2000/XP); Pentium 1.3GHz or higher (Windows Vista); Interface: USB (Windows 2000/XP/Vista pre-installed models only)
MACINTOSH® OS: Mac OS® X (v10.3–10.4). Computer Model: The OS should be pre-installed on computers with built-in USB ports; CPU: PowerPC G3, G4, G5 or Intel Processor; Interface: USB (Models with Apple genuine USB interface only)

- PowerShot G9 Kit

 - PowerShot G9 Body
 - Battery Pack NB-2LH
 - Battery Charger CB-2LW
 - Neck Strap NS-DC6
- MMC Plus Card MMC-32MH
 - Digital Camera Solution CD-ROM
 - USB Interface Cable IFC-400PCU
 - AV Cable AVC-DC300



All images and effects simulated. Face Detection only detects faces facing forward. And shows up to 9 frames or 35 frames on select models. All data are based on Canon's Standard Test Method. Subject to change without notice.
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Nomenclature



- 1 Neck Strap Mounts

2 Shutter Button

3 Zoom Lever

Shooting: (Wide Angle)/
 (Telephoto)

Playback: (Index)/
 (Magnify)

4 Mode Dial

5 AF-assist Beam/Redeyereduction/
Self-timer Lamp

6 Power Lamp

7 Viewfinder Window

8 Hot Shoe
- 9 ISO Speed Lamp

10 ISO Speed Dial

11 Flash

12 DC Coupler Cable Cover

13 Memory Card Slot/Battery Cover

14 Ring

15 Lens

16 Ring Release Button

17 Speaker

18 Shortcut/
 (Print/Share) Button

19 Diopter Adjustment Dial

20 Viewfinder



- 21 Indicators

22 Microphone

23 (Play Back) Button

24 (AF Frame Selector)/
 (Single Image Erase) Button

25 Power Button

26 (Exposure)/ (Jump) Button

27 (AE Lock/FE lock)/
 (Microphone) Button

28 Terminal Cover
(A/V Out, Digital Terminal)

29 LCD Monitor

30 Tripod Socket
- 31 DISPLAY Button

32 FUNC./SET (Function/Set) Button

33 MENU Button

34 Control Dial

35 Omni Selector

(Macro)/ Button

MF (Manual Focus)/ Button

(Flash)/ Button

(Continuous)/ (Self-Timer)/
 Button