

PowerShot G9

Imaging Sensor

Resolution	Approx. 12.1 million pixels
Recording pixels	4000 x 3000
Sensor type	Interline Transfer CCD
Sensor size	1/1.7-inch type

Lens

Focal length	7.4 – 44mm (equivalent to 35–210mm, in 35mm format)
Zoom ratio	6x (optical) / 4x (digital)
Lens construction	9 elements in 7 groups (including 1 aspherical lens element)
Maximum aperture	f/2.8 (W) ~ f/4.8 (T)
Image Stabilizer system	Lens shift type; Approx. 3 stops correction. <ul style="list-style-type: none">• IS modes: Off, Continuous, Shoot Only, Panning
Closest focusing distance	Normal — 1.6 feet (Wide) Macro — .39 inches
Autofocus	TTL autofocus; nine-point AIAF (camera automatically selects AF point) or single AF point <ul style="list-style-type: none">• Single AF point: center of frame or FlexiZone (freely move around most of frame)• Selectable AF point size: normal, or small• Face Detect AF (Up to 35 faces recognized)• User can specify a single primary face in a scene via Face Selector Button
Manual focus	Yes

Image Recording

Still image recording	8-bit JPEG; Three compression settings (“Super-Fine”, “Fine”, and “Normal”)
RAW file recording	Canon .CR2 RAW format possible <ul style="list-style-type: none">• Images can be processed using (included) RAW Image Task software, part of Canon’s ZoomBrowser or ImageBrowser programs
Movie recording	AVI (Image data: Motion JPEG; Audio data: WAVE mono)
Data recording format	DCF (Design rule for Camera Filing system); DPOF ver. 1.1 (Digital Print Order Format) EXIF 2.2 compatible
Reduced resolution options	4000 x 2248 (16:9 Widescreen); 3264 x 2448 (Medium 1); 2592 x 1944 (Medium 2); 1600 x 1200 (Medium 3); 640 x 480 (Small)
Sound recording	1). Up to 60 second sound memo can be recorded for each image 2). Sound Recorder: camera can be used as “tape recorder”; up to 12 hours of sound recording possible on 1GB SD card
Storage media	Secure Digital (SD); or SD High Capacity (SDHC); or Multi-Media Card (MMC); or High Capacity Multi-Media (HC MMCplus) memory cards
Format function	Normal and low level format
Color space	sRGB
Red-eye correction	Uses Face Detection function to automatically remove red-eye from playback menu option. If no face is detected, user can set frame to remove red-eye

Shooting Controls

Shooting modes	<i>On mode dial:</i> Full Auto, Program, Shutter-priority, Aperture-priority, Manual, two user-defined Custom settings, Stitch Assist, Movie, and Special Scene <i>Special Scene Modes:</i> Portrait, Landscape, Night Scene, Night Snapshot, Sports, Indoor, Kids & Pets, Foliage, Snow, Beach, Fireworks, Aquarium, ISO 3200, Underwater, Color Accent, Color Swap
Shutter speed range	15 seconds ~ 1/2500 sec.
Aperture	f/2.8 – f/8.0 (W) / f/4.8 – f/8.0 (T)
“My Colors” mode	<i>Full range of settings:</i> Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, and Custom Color (adjustments for contrast, sharpness, and saturation)
Noise reduction	Available when shutter speed is set between 15 seconds and 1.3 sec.
White Balance	Three options available: Auto; Pre-set White Balance (daylight, cloudy, tungsten, fluorescent, fluorescent H, flash and underwater); two Custom settings (WB off of white object or neutral gray object)
Self-timer	2-second delay, 10-second delay, and Custom Timer • Custom Timer: user can set delay 0~10, 15, 20 or 30 seconds, and number of shots 1~10
Remote shooting	Possible, using Canon’s supplied Remote Capture Task software, via USB to computer

Exposure

Metering	Evaluative, Center-weighted average, Spot (spot metering at center or linked to active AF point), Face Detect AE • incorporates face brightness when using Face Detection • concentrates metering on faces
Auto Exposure Lock	Available
Program Shift / Safety Shift	Available
Exposure compensation	+/- up to 2 stops, 1/3-stop increments
Auto exposure bracketing	Available
ISO sensitivity	Auto, High ISO Auto (uses high ISOs when needed, up to 800); or user-set ISO 80, 100, 200, 400, 800, 1600 — ISO set on top-mounted dial
Shutter speed range	15 seconds ~ 1/2500 sec.

LCD

LCD monitor	3.0-inch (diagonal) TFT LCD monitor (no tilt/swivel); Night Display available • Resolution: approx. 230,000 pixels; 100% coverage of actual image • Horizontal and vertical grid lines display option
Brightness Adjustment	15 Levels available
Eye-level viewfinder	Optical eye-level, real-image zoom finder; diopter range -3.0~+1
Special playback features	• Enlarged playback (2x~10x) with free scrolling to any part of image • Advance or reverse through magnified images is available • Organize images in My Category: People, Scenery, Events, Category 1–3 and To Do • Image is automatically rotated when camera is in either vertical or horizontal • Jump: 10/100 images, shot date, movie, folder and My Category • Slide Show: Playback interval 3–10 sec., 15 sec., 30 sec. (3 types available) • Transition Effects: 3 types available • Movie playback: Normal, Slow Motion, Pause, Editing (portions of clip can be erased)
Histogram	Real-time shooting histogram available, and playback histogram available (overexposure warning available when viewing playback histogram)

Performance**Imaging processor**

DIGIC III

Continuous shooting speed

Approx. 1.5 shots per second Large/Fine (with AF locked)
• 0.7 shots per second with continuous AF

Camera start-up time

Approx. 1.3 seconds

Movie Mode**Resolution***High-resolution:* 1024 x 768 at 15 fps*Standard:* 640 x 480 (VGA) at 30 fps/30 fps LP (Long Play); 320 x 240 (QVGA) at 30 fps*Compact:* 160 x 120 (QQVGA) at 15 fps**Recording length**

Up to 4GB or 1 hour per movie clip

Features during movie recording

- AF lock, AE lock, exposure shift, digital zoom (Standard mode only), MF, grid line display
- Continuous IS (Image Stabilization), continuous auto focus, auto exposure, WB
- Mono sound recording: 16-bit, 44.100 kHz (11.025 kHz for 160x120 movies)
- Long play mode increases compression rate for longer video recording
- Color Accent / Color Swap available during movie recording
- Time Lapse movies — record at 1 fps or 0.5 fps; play back at 15 fps

Movie playback

On camera's LCD (with sound); Standard TV monitor using video-out cord;
or within Macintosh or Windows PC using Apple QuickTime™ software

- View first frame, previous frame, next frame, and last frame
- Fast forward, fast rewind, and slow motion (five different slow-motion speeds available in addition to standard playback speed)
- No audio during slow-motion playback

Flash**Built-in flash**

Yes

Flash modes

Automatic firing; Flash On; Flash Off

Face Detection Flash

Yes, Face Detect FE (Flash Exposure)

Manual flash output

Yes, 3 steps

Slow sync

Available (second-curtain sync not available)

Flash exposure lock

Available

Flash output compensation

+/- 2 stops in 1/3 stop increments

Maximum distance

9.8 ft (W) / 6.6 ft (T); ISO set to Auto

Macro flash

1.6 feet

Flash sync speed

1/500 sec. (maximum)

Compatible accessory Speedlites

Any EX-series speedlite (wireless E-TTL possible with compatible flashes,
and/or Canon ST-E2 wireless transmitter)

Computer Interface**Direct-connection to computer**

USB (mini-B); via dedicated Canon USB cable IFC-400PCU (supplied with camera)

- USB speed: 2.0 Hi-speed

Communication Settings

PTP (Picture Transfer Protocol) and MTP (Media Transfer Protocol)

- Certified Windows Vista compatible

Computer Controlled Shooting

When connected to a computer, shooting operation via the computer is possible with of supplied Remote Capture Task Software

Video Out to TV monitor

Yes, via supplied A/V cable AVC-300 (NTSC or PAL; selectable on camera's menu)

Direct Printing**Compatible printers**

Canon Compact Photo printers — prints directly to Canon CP and SELPHY printers
Canon inkjet printers — prints directly to compatible Direct-print Canon printers
Third-party inkjet printers — prints directly to PictBridge-compatible printers

Printing features

Print with shooting data, image optimizer (face brightener), select paper size, ID Photo print (possible on CP printer), Single frame Movie print (thumbnail frames from movie can be printed with select Canon CP printers)

Print/Share button

Yes

Battery and Power**Type**

Rechargeable Canon NB-2LH battery pack (same battery as EOS Digital Rebel XT/XTi)

Recording capacity

Approx. 240 shots (LCD monitor on, CIPA standard)

LCD playback time

Approx. 7 hours

AC adapter

(optional) Canon AC Adapter Kit ACK-DC20

Car battery charger

(optional) Canon CBC-NB2

Body & Dimensions**Dimensions (W x H x D)**

4.2 x 2.8 x 1.7 inches; excluding protrusions

Weight (w/o battery or SD card)

11.3 oz.

Other**Languages**

25 languages: English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Russian, Portuguese, Greek, Polish, Czech, Hungarian, Turkish, Arabic, Traditional Chinese, Korean, Thai, Romanian, Ukrainian, and Japanese

Clock Function

Built-in; automatic calendar until year 2037

- No imprinting of date/time on images, except Postcard direct print mode to select Canon printers