

digital revolutionized photography
we revolutionized digital

Canon KNOW HOW®

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Canon

*PowerShot
Pro1*



L
THE POWER OF **L** LENS



PowerShot Advances to a New Level of Performance

PowerShot Pro1 was created to lead not only the PowerShot line, but the entire compact digital camera class—and it succeeds brilliantly. The camera's superiority starts with the lens: an exceptionally bright, genuine **Canon L Lens** with a powerful **7x zoom**. Canon L-series lenses are the first choice of professional photographers the world over for their manufacturing precision,

state-of-the-art features and ultra-durable construction. An **8-megapixel CCD** captures a wealth of detail, imbuing your photography with a truly lifelike vibrancy and ensuring that even your largest prints will faithfully and dynamically render your photographic vision. Canon's exclusive **DiGIC Imaging Processor**, the industry benchmark, maximizes the camera's extraordinary pixel count. The camera also employs Canon's own **iSAPS Technology**, developed from more than **60 years of photographic experience**. Added to these critical elements are a host of high-performance capabilities that offer advanced amateurs a new level of flexibility: an extensive array of shooting modes and functions, intelligent automatic systems, and sophisticated manual controls.

See why PowerShot Pro1 is the uncontested new leader in compact digital cameras.





Unsurpassed Image Quality

Designed to create professional-level finished work, the PowerShot Pro1 is equipped with the most powerful, advanced lens in the PowerShot line. In fact, the Pro1's debut marks the first time a **fluorite lens** has been used in a PowerShot digital camera. The fluorite lens (a direct result of Canon's decades-long pursuit of the ideal lens) gives clear, sharp image delineation which other optical glass cannot match. Paired with **UD (Ultra-low Dispersion)** glass, the lens achieves the absolute minimum in chromatic aberration. An **Aspherical lens** is also incorporated. Precision-manufactured to within 0.1 microns via a software program Canon developed, it corrects spherical aberrations and curvilinear distortion while keeping the zoom lens compact.

The **7x zoom** lens' focal length ranges from the wide-angle 28mm to the telephoto 200mm level (in 35mm film equivalent)

to handle everything from snapshots, landscapes, portraits and sports scenes with ease. The zoom is powered with an **Ultrasonic Motor** for fast, silent performance. In addition, Canon technology allows the lens to achieve exceptionally large maximum aperture of f/2.4 to f/3.5, with the highest brightness in its class for the 28mm end of the zoom range. A digital zoom brings total zooming all the way up to **22x** (resolution at the maximum digital zoom factor is 1024 x 768).

The camera's resolution places it solidly at the top of the compact digital camera class: an extraordinary **8 million pixels**, for a 3264 x 2448 resolution that will give your photography an astonishing level of clarity and depth.

Canon's exclusive **DiGIC Imaging Processor** enhances resolution even further, with superior image quality, super-fast processing and highly responsive performance. **iSAPS Technology** instantly optimizes the camera's automatic focus, exposure and white balance systems to suit any photographic situation, while primary color filters ensure true, luminous color.



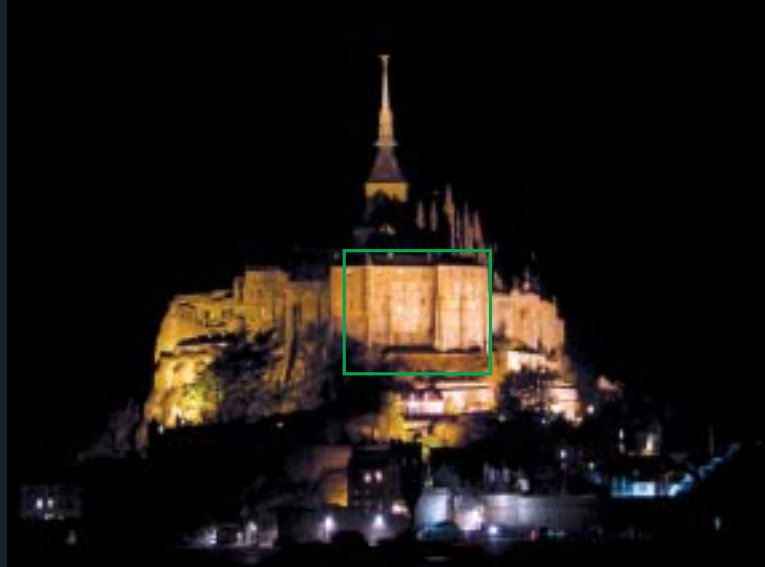
200mm*



28mm*

7x Optical

* Approximately equivalent to 28-200mm in the traditional 35mm format.



 Spot Metering



 Evaluative Metering



 Center-weighted Average Metering

Superb Performance

The PowerShot Pro1 employs Canon's advanced **Hybrid AF** system. This system maximizes the advantages of both the traditional contrast detection method (high precision) and triangulation (high-speed). The result is fast, accurate AF over the entire range of photographic conditions.

The camera's innovative **FlexiZone AF/AE** system lets you move the AF point around the frame to focus on off-center subjects without reframing the shot. When spot metering is used, it can measure at the exact AF point location or meter the center of the picture area.

The camera's extensive array of **manual controls** befits its professional-level image quality. Knowledgeable users can tailor shutter speed, aperture, focus, flash output and exposure control to match the photographic conditions and their own creative vision.

The camera's standard macro function brings you a breathtaking 4" from your subject. But now you can get even closer: **1.2"** with a new **Super Macro Mode** that delivers a full 5 megapixels of close-up detail.

Three light-metering modes are available for precise exposure: **Evaluative Metering**, **Center-weighted Average Metering** and **Spot Metering**, which lets you measure exposure at the chosen AF point or the center of the frame for an exceptional level of control.





Expanded Capabilities

Shooting with flash never slows down the action. The **Built-in Pop-up Flash** retracts when not in use, and you can opt to allow the flash to pop up and fire automatically whenever the camera detects a low ambient light situation. The camera's 3-mode built-in flash includes Red-Eye Reduction, and can be completely automatic or adjusted manually to 3 levels. Flash exposure compensation can be set ± 2 stops in 1/3-stop increments. Advanced users will enjoy first and second curtain sync options for creative effects, plus compatibility with Canon's full line of **EX-series Speedlite** external flashes and Canon's **E-TTL wireless flash system**.

Simply attach the optional **Conversion Lens Adapter LA-DC58C** to access a much wider photographic range. For example, add the new **Tele-Converter TC-DC58A** to achieve 1.5 times the focal distance of the master lens, or the **58mm Close-up Lens 500D** for fabulous macro shots. PowerShot Pro1 includes a converter mode to ensure that the lens automatically moves to the optimum zoom position for both these conversion lenses.

ACCESSORIES*



*Speedlite 550EX/
420EX/220EX*



*Speedlite Transmitter
ST-E2*



*Macro Twin Lite MT-24 EX†
Macro Ring Lite MR-14 EX†*



*Tele Converter
TC-DC58A†*



*58mm Close-up
Lens 500D*



*Conversion Lens Adapter
LA-DC58C*

* Additional optional accessories are listed on page 19.

† Requires Conversion Lens Adapter LA-DC58C.



The camera comes equipped with a removable **Lens Hood LH-DC10** that prevents any potential flare, and **Filter Adapter FA-DC58A**, which lets you attach filters for special effects.

The camera uses a new **Lithium Ion Battery Pack BP-511A** with extended shooting capacity and a battery charge confirmation window that lets you easily distinguish between a discharged battery pack and a fully charged one.

Enjoy expanded memory and high-speed writing with **CompactFlash Cards Type I and II**.





Intuitive Design

With a comfortable, ergonomic grip and natural inline layout of key elements, PowerShot Pro1 is designed with the photographer in mind.

The camera features a swiveling **2.0-inch Vari-angle LCD monitor** that offers the highest resolution in its class at 235,000 pixels. The **electronic viewfinder** offers the same sharp resolution, and both keep pace with the high-speed zoom for seamless, responsive shooting.

Information in the **large display panel** is always clear and visible—and the panel can be illuminated at the push of a button. The **mode dial** is located for easy viewing during operation, and a **main switch** takes you quickly from shooting to playback mode.



When you switch off the power, the camera's shooting lens begins retracting immediately: no waiting for data to be written to the CF card. And now you can shoot in silence with a **one-touch mute** function that disables all sounds except the warning sound.



When viewing your captured images in playback mode, zoom in on your shots up to **10x** simply by turning the **zoom ring**, just as you would for manual zooming while shooting.



Share Your Creativity

Professional quality prints are as close as your fine Canon printer. The camera connects directly to a wide range of **Canon Card Photo Printers** and **Canon Direct Photo Printers** for a world of printing options: credit card-size, 4" x 6", 5" x 7", letter-size (8.5" x 11"), 11" x 13", labels, and much more, all without your computer.

While Canon printers will deliver the highest quality prints from your PowerShot Pro1, the camera is equipped with **PictBridge** compatibility to ensure smooth connections to other manufacturers' printers as well.



Direct Photo Printers

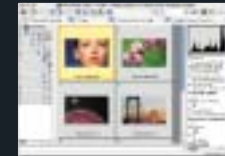


Card Photo Printers



PowerShot Pro1 comes complete with Canon's own **Digital Camera Solution Disk** and proven third-party software:

ZoomBrowser EX (Win)/**ImageBrowser** (Mac): A user-friendly program that lets you quickly and easily connect, manage files and view images.



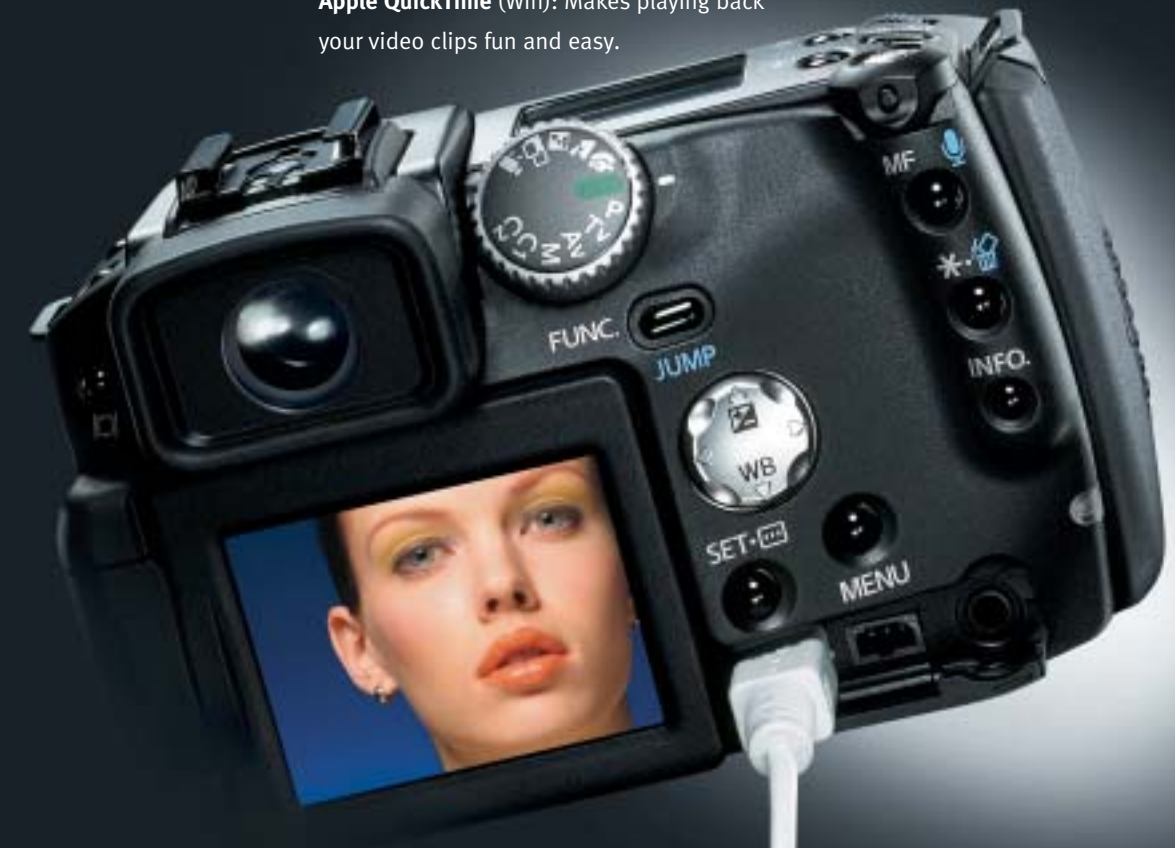
PhotoRecord (Win): Create exciting photo layouts for personal or business use, putting text anywhere on the page. Includes Exif support for enhanced color accuracy and detail.

PhotoStitch (Win/Mac): Join sequential shots to create seamless, perfectly aligned vertical, horizontal, 2x2 panoramas or 360° panorama movies.

TWAIN Driver/WIA Driver (Win): Allows your computer to recognize your camera and integrate well with third-party software.

ArcSoft Camera Suite (Win/Mac): Crop, enlarge and retouch photos and video clips like a pro.

Apple QuickTime (Win): Makes playing back your video clips fun and easy.





Smart Shooting

PowerShot Pro1 puts an extensive array of **shooting modes** at your fingertips.



C1 C2 Custom Mode:
Store up to two sets of camera settings and recall them at a twist of the mode dial.



M Manual:
Set aperture and shutter speed yourself.



Av Aperture Priority:
Set the aperture to control depth-of-field while the camera selects shutter speed.



Tv Shutter Speed Priority:
Select from a wide range of shutter speeds while the camera sets an appropriate aperture.



P Program:
Set almost all parameters yourself, while the camera selects aperture and shutter speed.



AUTO Auto:
Concentrate on your composition while the camera manages all the technical work.



Portrait:
A larger aperture ensures a well-focused subject and beautiful background blur.



Landscape:
A smaller aperture is perfect for capturing sweeping vistas.



Night Scene:
Background exposure and slow-sync flash light tricky night shots perfectly.



Stitch Assist:
Easily create precisely aligned panoramas.



Movie:
Shoot 640 x 480 high-resolution movie clips with sound, up to 30 seconds per clip. Longer recording times—up to three minutes—are possible in the 320 x 240 and 160 x 120 resolution settings. And you can delete unwanted scenes after they're shot, right in the camera.

In Av and Tv modes, a **Safety Shift** function is available to eliminate exposure errors: the camera will automatically change shutter speed or aperture to work within the ambient brightness conditions.



Advanced Functions

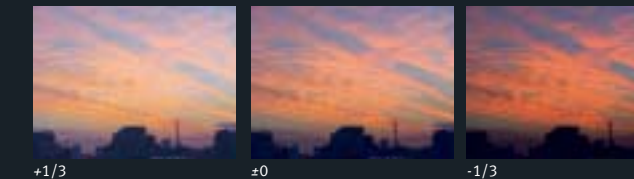
Extremely fast-moving subjects are fair game with a high-precision shutter drive that reaches a **maximum speed of 1/4000 sec.** (or you can shoot for up to 15 seconds in low light).

Two continuous shooting modes capture high-impact images at any pace: standard (1 image per second) or high-speed (2.5 images per second). In Stitch Assist, PowerShot Pro1 even lets you confirm the next image to shoot on the LCD monitor or electronic viewfinder while you're shooting the current image.

Attaining proper **white balance**, key to a professional result, is easy and flexible. Presets include Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H and Flash. The camera offers 2 custom positions as well.

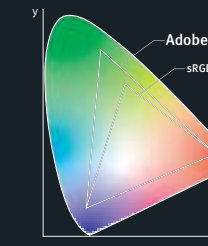
The camera enables your most creative photography with **AE** and **AF Lock** (lock in exposure or focus while adjusting other parameters) plus **FE Lock** for use with optional EX-series Speedlites. In addition, "insure" your best shot with **Focus Bracketing** (at stop widths of large, medium and small), and **Auto Exposure**

Bracketing (capture 3 exposures with one shot, setting a range between ± 2 stops at 1/3-stop increments).



A major advantage to digital is the ability to switch **ISO ratings** without worrying about switching film rolls. PowerShot Pro1 offers instant access to ISO equivalents of 50, 100, 200 and 400.

PowerShot Pro1 produces professional-level quality images. Accordingly, the camera offers a choice of professional color spaces: a standard sRGB color space setting, plus **Adobe RGB**, a broader color spectrum. Adobe RGB is the data standard of the printing industry, making the camera perfect for professionals who will use images as originals for printed documents.



The camera gives you the flexibility of 16 image quality modes to match your end purpose exactly: five modes from small to large combined with three compression ratios (normal, fine, superfine), plus **RAW** mode. In addition, you can develop RAW files with 16-bit depth using the **TWAIN Driver** for increased stability in image quality, perfect for professional-level image retouching and finishing.

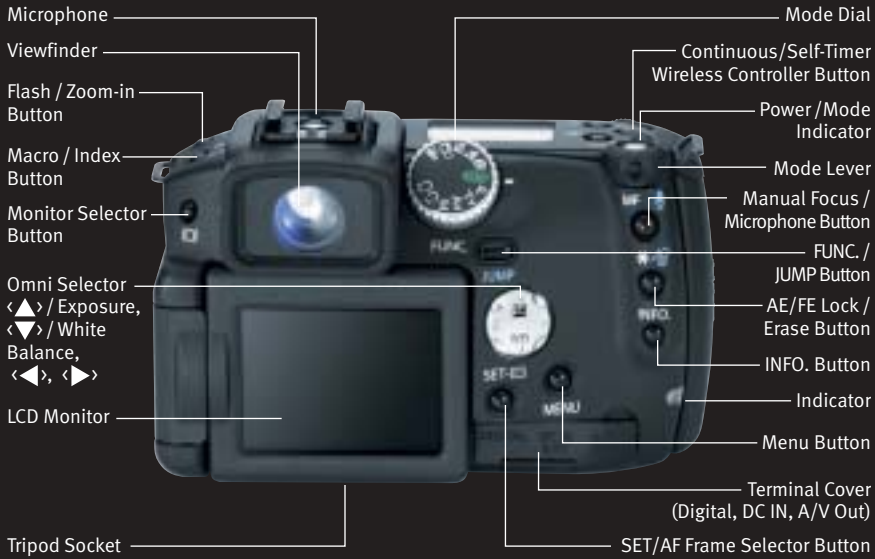
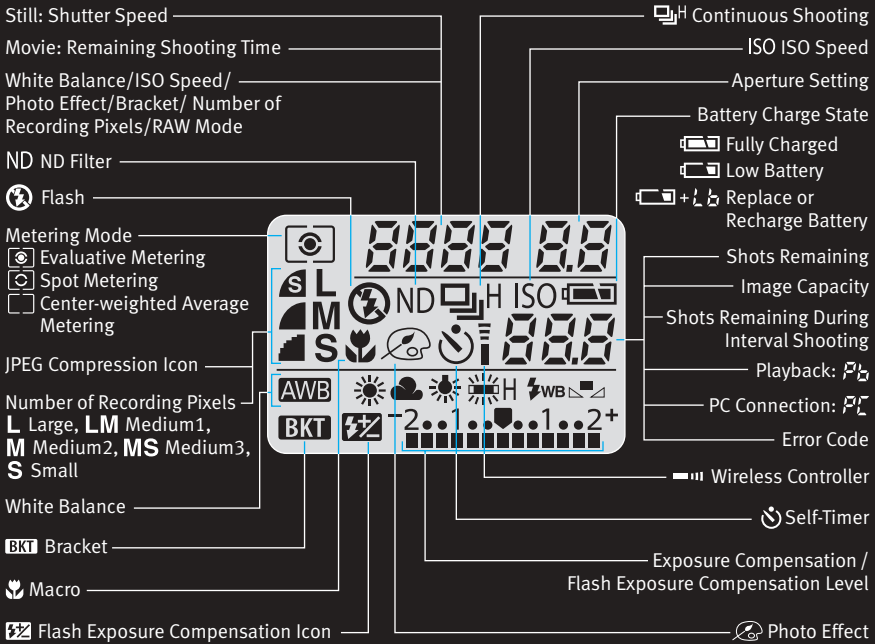
Photo Effects boost the artistry of your shots instantly. Choose Vivid Color, Neutral Color, Low Sharpening, Sepia or Black & White, plus set and save your own custom effects by choosing contrast, sharpness and saturation levels.



NOMENCLATURE



LCD DISPLAY PANEL



MODE DIAL

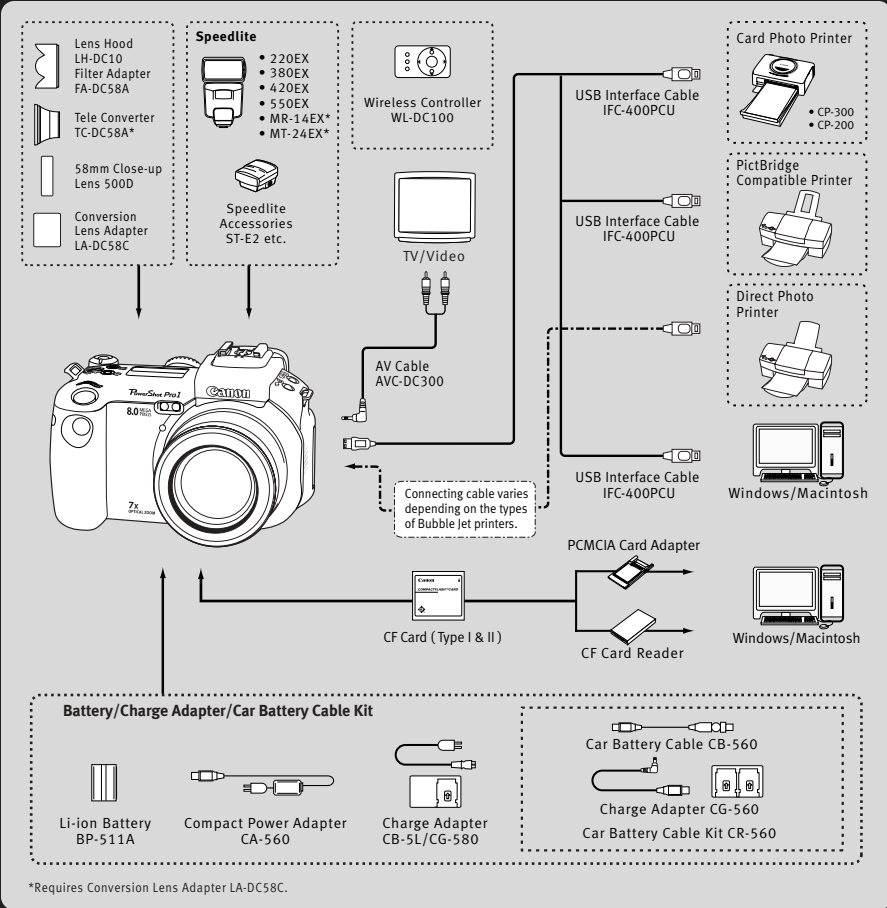


SUPPLIED ACCESSORIES



- A. PowerShot Pro1 Body
- B. Lens Hood LH-DC10
- C. Battery Charger CB-5L
- D. Filter Adapter FA-DC58A
- E. Lens Cap
- F. Neck Strap
- G. Wireless Controller WL-DC100
- H. Battery Pack BP-511A
- I. CompactFlash Card FC-64MH
- J. Digital Camera Solution CD-ROM
- K. ArcSoft Camera Suite CD-ROM
- L. Interface Cable IFC-400PCU
- M. AV Cable AVC-DC300

CONNECTION DIAGRAM



OPTIONAL ACCESSORIES



SPECIFICATIONS

Type: Compact digital still camera with built-in flash & 7x Optical Zoom & 3.2x Digital Zoom, 22x Combined Zoom
Image Capture Device: 8.0 MP 2/3" CCD
Color Depth: 8 bits x 3 colors
Resolution (Recording Pixels): 640 x 480 pixels (Small), 1024 x 768 (Med Low), 1600 x 1200 (Med Mid), 2272 x 1704 (Med High), 3264 x 2448 (Large); 640 x 480, 320 x 240 or 160 x 120 (Movie)
ISO Sensitivity: Auto, or User-set ISO 50, 100, 200, 400
Image Quality Modes (JPEG): Normal, Fine, SuperFine
File Format: Design rule for Camera File system, DPOF Version 1.1 (Digital Print Order Format)
Image Recording Format: Still Image: JPEG or RAW; Movie: AVI, Exif 2.2 compliant
Recording Media: CompactFlash™ (CF) Card, Type I & II
Shooting Modes: Auto, Creative (P, Av, Tv, M), Image (Portrait, Landscape, Night Scene, Stitch Assist, Movie), Custom 1, Custom 2
Photo Effect: Vivid, Neutral, Low Sharpness, Sepia, Black & White, Custom
Playback Modes: Single, Index (9 thumbnails), Magnification (Approx. 2x~10x), Slide Show or Movie
Erase Modes: Single image, All images
Interfaces: USB; AV Output (NTSC/PAL Selectable, monoaural audio) & CF Card slot (Complied w/ Type II Standard), Direct Connection to Canon Direct Photo Printers & PictBridge compatible printers
Lens: 7.2–50.8mm, f/2.4–3.5 L-series zoom lens (equivalent to 28–200mm in 35mm format)
Shutter Speed: 15–1/4000 sec. Slow shutter w/noise reduction, 1.3–15 sec. are manually set
Focus Range: Normal AF: 1.6 ft. (50cm)–Infinity (WIDE), 3.3 ft. (1m)–Infinity (TELE); Macro AF: 3.9 in.–1.6 ft. (10–50cm) (WIDE), 1.0–1.6 ft. (30–50cm) (TELE); Super Macro: 1.2 in. –1.0 ft. (3–30cm); Manual: 3.9 in. (10cm)–Infinity (WIDE), 1.0 ft. (30cm)–Infinity, 3.3 ft.–Infinity (TELE)
Light Metering Method: Evaluative metering, Center-weighted average metering or Spot metering
Exposure Control: Program AE, Shutter Priority, Aperture Priority, or Manual; AE Lock is available
Compensation: +/- 2.0 EV in 1/3 step increments
White Balance Control: TTL Auto White Balance, Preset White Balance (Avail. settings: Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H or Flash) & Custom White Balance (Two settings)
Optical Viewfinder: Color LCD Viewfinder
LCD Monitor: 2.0" low-temperature polycrystalline silicon TFT color LCD (Vari-angle)
Power Sources: Rechargeable lithium-ion battery (BP-511/511A) or Compact Power Adapter CA-560, Car Battery Cable Kit CR-560.
Dimensions (W x H x D): 4.6" x 2.8" x 3.6" / 117.5 x 72 x 90.3mm
Weight: Approx. 19.2 oz./545g (camera body only)

IMAGE STORAGE CAPACITY

	Large/SF	Large/F	Large/N	Medium1/SF	Medium1/F	Medium1/N	Medium2/SF	Medium2/F	Medium2/N	Medium3/SF
File Size	3,436KB	2,060KB	980KB	2,002KB	1,116KB	556KB	1,002KB	558KB	278KB	570KB
CF-32MB	8	14	30	14	27	54	30	54	108	53
CF-64MB	17	29	62	30	54	110	61	109	217	107
CF-128MB	35	59	125	61	110	220	122	219	435	215
CF-256MB	72	120	252	123	222	443	246	440	868	431
CF-512GB	144	240	503	247	442	879	491	879	1,734	855
CF-1GB	300	496	1,024	512	910	1,726	993	1,726	3,280	1,726
	Medium3/F	Medium3/N	Small/SF	Small/F	Small/N	Movie/High	Movie/Med	Movie/Low	RAW	
File Size	320KB	170KB	249KB	150KB	84KB	990KB/sec.	330KB/sec.	120KB/sec.	9,020KB	
CF-32MB	94	174	120	196	337	30 sec.	91 sec.	242 sec.	2	
CF-64MB	189	349	241	393	676	61 sec.	183 sec.	486 sec.	6	
CF-128MB	379	700	482	788	1,355	124 sec.	368 sec.	973 sec.	13	
CF-256MB	762	1,390	962	1,563	2,720	249 sec.	735 sec.	1,954 sec.	26	
CF-512MB	1,522	2,714	1,891	3,122	5,203	499 sec.	1,451 sec.	3,902 sec.	54	
CF-1GB	2,982	4,687	3,645	5,468	8,202	1,024 sec.	2,733 sec.	6,562 sec.	115	

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. Figures for Movie Mode represent total capacity of CompactFlash Card.