



PowerShot S90
Specification Sheet

IMAGE SENSOR		
Type		1/1.7" CCD
Effective Pixels		Approx.10.0M
Colour Filter Type		Primary Colour
IMAGE PROCESSOR		
Type		DIGIC 4 with iSAPS technology
LENS		
Focal Length		6.0 - 22.5 mm (35mm equivalent: 28-105mm)
Zoom		Optical 3.8x. Digital approx. 4x (with Digital Tele-Converter approx. 1.4x or 2.3x and Safety Zoom [1]) [2]. Combined approx. 15x
Maximum f/number		f/2.0-f/4.9
Construction		7 elements in 6 groups (2 double-sided aspherical elements including 1 UA element)
Image Stabilisation		Yes (shift-type)
FOCUSING		
Type		TTL
AF System/ Points		AiAF (Face Detection / 9-point), 1-point AF (fixed to centre)
AF Modes		Single, Continuous (only available in Auto mode), Servo AF/AE[10]
AF Point Selection		Size (Normal, Small)
AF Lock		On/Off Selectable
AF Assist Beam		Yes
Manual Focus		Yes
Focus Bracketing		Yes
Closest Focusing Distance		5cm (W) from front of lens in macro
EXPOSURE CONTROL		
Metering modes		Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (Centre)
AE Lock		Yes
Exposure Compensation		+/- 2 EV in 1/3 stop increments Enhanced i-Contrast for automatic dynamic range correction
AEB		1/3 - 2 EV in 1/3 stop increments
ISO sensitivity [3]		AUTO, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200
SHUTTER		
Speed		1 - 1/1600 sec (factory default) 15 - 1/1600 sec (total range - varies by shooting mode)
WHITE BALANCE		
Type		TTL
Settings		Auto (including Face Detection WB), Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom. White Balance Correction

LCD MONITOR		
Monitor		3.0" PureColor LCD II (TFT), approx. 461,000 dots
Coverage		100%
Brightness		Adjustable to one of five levels. Quick-bright LCD
FLASH		
Modes		Auto, Manual Flash On / Off
Slow Sync Speed		Yes. Fastest speed 1/500 sec
Red-Eye Reduction		Yes
Flash Exposure Compensation		+/- 2 EV in 1/3 stop increments. Face Detection FE. Safety FE.
Flash Exposure Lock		Yes
Manual Power Adjustment		3 levels with internal flash
Second Curtain Synchronisation		Yes
Built-in Flash Range		50cm-6.5m (W) / 2.5m (T)
External Flash		Canon High Power Flash HF-DC1
SHOOTING		
Modes		Auto*, Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom, Low Light [5], SCN (Portrait, Landscape, Night Scene, Night Snapshot, Kids & Pets, Indoor, Sunset, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater, Color Accent, Color Swap, Nostalgic, Stitch Assist), Movie *with Scene Detection Technology and Motion Detection Technology
Photo Effects		My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)
Drive modes		Single, Continuous, Self-Timer, FaceSelf-Timer
Continuous Shooting		Approx. 0.9 shots/sec.[6], AF: Approx. 0.6 shots/sec.[6], LV: Approx. 0.6 shots/sec.[6] (until memory card becomes full) [7]
RECORDING PIXELS / COMPRESSION		
Image Size		(L & RAW) 3648 x 2736, (M1) 2816 x 2112, (M2) 2272 x 1704, (M3) 1600 x 1200, (S) 640 x 480, (W) 3648 x 2048. Resize in playback (M3, S, 320 x 240)
Compression		Fine, Normal
Movies		640 x 480, 30fps 320 x 240, 30fps
Movie Length		Up to 4GB or 1 hour [7]
FILE TYPES		
Still Image Type		JPEG compression, (Exif 2.2 [Exif Print] compliant) / Design rule for Camera File system, RAW, Digital Print Order Format [DPOF] Version 1.1 compliant
Movies		MOV [H.264 + Linear PCM (monaural)]
Sound Files		WAVE (monaural)

DIRECT PRINT		
Canon Printers	Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge (ID Photo Print, Fixed Size Print and Movie Print supported on SELPHY CP & ES printers only)	
PictBridge		Yes
OTHER FEATURES		
Red-Eye Correction		Yes, during shooting and playback
My Camera / My Menu		Start-up image and camera sounds customisation. Menu customisation
My Category		Image tagging feature
Intelligent Orientation Sensor		Yes
Histogram		Yes
Playback zoom		Approx. 2x – 10x
Self Timer		Approx. 2 or 10 sec., Custom or FaceSelf-Timer
Menu Languages		English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Chinese (traditional), Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Ukrainian, Romanian, Farsi
INTERFACE		
Computer		Hi-Speed USB (MTP, PTP) dedicated connector (Mini-B compatible)
Other		HDMI Mini Connector. A/V output (PAL/NTSC)
MEMORY CARD		
Type		SD, SDHC, MMC, MMCplus, HC MMCplus.
SUPPORTED OPERATING SYSTEM		
PC & Macintosh		Windows XP SP2-3 / Vista (including SP1-2) Mac OS X v10.4 - 10.5
SOFTWARE		
Browsing & Printing		ZoomBrowser EX / ImageBrowser
Other		PhotoStitch
Image Manipulation		Digital Photo Professional for RAW development
POWER SOURCE		
Batteries		Rechargeable Li-ion Battery NB-6L (NB-6L battery and charger supplied)
Battery life		Approx. 220 shots [8] Approx. 300 min. playback
A/C Power Supply		Optional, AC Adapter Kit ACK-DC40
ACCESSORIES		
Case		Soft Case DCC-1400
Waterproof / Weatherproof Case		Waterproof Case (40m) WP-DC35, Waterproof Case Weight WW-DC1
Flash		High Power Flash HF-DC1
Power Supply & Battery Chargers		AC Adapter Kit ACK-DC40, Battery Charger CB-2LYE
Other		Canon HDMI Cable HTC-100

PHYSICAL SPECIFICATIONS

Operating Environment	0 – 40 °C, 10 – 90% humidity
Dimensions (WxHxD)	100.0 x 58.4 x 30.9 mm
Weight (body only)	Approx. 175g

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated.
Subject to change without notice.

[1] Depending on the image size selected.

[2] Digital zoom available for still image and standard movie modes only. Optical zoom may not be available

[3] Standard Output Sensitivity / Recommended Exposure Index. According to ISO 12232:2006 (20th April 2006) which specifies the method for assigning and reporting ISO speed ratings for digital still cameras.

[5] Recording pixels fixed at 1600 x 1200 (ISO 3200 Mode) and 1824 x 1368 (Low Light Mode).

[6] Under conditions where the flash does not fire.

[7] Depending on memory card speed / capacity / compression setting.

[8] Using the batteries and memory card format supplied with the camera (where included), except where indicated.

[10] Some settings limit availability