DIGITAL CAMERA	PowerShot SX510 HS
IMAGE SENSOR	
Type	1/2.3 type back-illuminated CMOS
Effective Pixels	Approx. 12.1M
Colour Filter Type	Primary Colour
IMAGE PROCESSOR	
Type	DIGIC 4 with iSAPS technology
LENS	
Focal Length	4.3 – 129.0 mm (35 mm equivalent: 24 – 720 mm)
Zoom	Optical 30x ZoomPlus 60x Digital Approx. 4x (with Digital Tele-Converter Approx. 1.5x or 2.0x and Safety Zoom [1]). Combined Approx. 120x
Maximum f/number	f/3.4 – f/5.8
Construction	13 elements in 10 groups (1 UD lens, 1 double-sided aspherical lens)
Image Stabilisation	Yes (lens shift-type), approx. 2.5-stop [13]. Intelligent IS plus Enhanced Dynamic IS
FOCUSING	
Type	TTL
AF System/Points	AiAF (Face Detection / 9-point), 1-point AF (fixed to centre)
AF Modes	Single, Continuous, Servo AF/AE[6], Tracking AF
AF Point Selection	Size (Normal, Small)
AF Lock	On/Off Selectable
AF Assist Beam	Yes
Manual Focus	Yes
Closest Focusing Distance	0 cm (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
ISO sensitivity	AUTO, 100, 200, 400, 800, 1600, 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, Custom
LCD MONITOR	
Monitor	7.5 cm (3.0") TFT, Approx. 461,000 dots
Coverage	Approx. 100%
Brightness	Adjustable to one of five levels. Quick-bright LCD
FLASH	
Modes	Auto, Manual Flash On / Off, Slow Synchro
Slow Sync Speed	Fastest speed 1/1600 sec.
Red-Eye Reduction	Yes
Flash Exposure Compensation	+/- 2 EV in 1/3 stop increments. Face Detection FE. Safety FE, Smart Flash Exposure
Flash Exposure Lock	Yes
Manual Power Adjustment	3 levels with internal flash
Built-in Flash Range	50 cm – 5.0 m (W) / 50 cm – 3.0 m (T)
External Flash	Canon High Power Flash HF-DC2

SHOOTING		
	Modes	Smart Auto (32 scenes detected), Movie Digest, Program AE, Shutter priority AE, Aperture priority AE, Manual, Live View Control, SCN (Portrait, FaceSelf-Timer, Low Light (3.0MP), Snow, Fireworks), Creative Filters (Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect), Discreet, Movie
	Modes in Movie	Smart Auto (21 scenes detected), Standard, Program AE, Portrait, Snow, Fireworks, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Super Slow Motion Movie
	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, Continuous with AF, Self-Timer
	Continuous Shooting	Approx. 3.8 shots/sec High-speed Burst (3MP): 10.5 shots/sec with AF: Approx. 1.0 shots/sec. with Live View: Approx. 1.0 shots/sec (all speeds are until memory card becomes full)[3][4]
RECORDING PIXELS / COMPRESSION		
	Image Size	4:3 - (L) 4000 x 3000, (M1) 2816 x 2112, (M2) 1600 x 1200, (S) 640 x 480 16:9 - (L) 4000 x 2248, (M1) 2816 x 1584, (M2) 1920 x 1080, (S) 640 x 360 3:2 - (L) 4000 x 2664, (M1) 2816 x 1880, (M2) 1600 x 1064, (S) 640 x 424 1:1 - (L) 2992 x 2992, (M1) 2112 x 2112, (M2) 1200 x 1200, (S) 480 x 480 Resize in playback (M2, S)
	Compression	Superfine, Fine
	Movies	(Full HD) 1920 x 1080, 24 fps, (HD) 1280 x 720, 30 fps, (L) 640 x 480, 30 fps Super Slow Motion Movie (L) 640 x 480, 120fps, (M) 320 x 240, 240fps Miniature Effect (HD, L) 6fps, 3fps, 1.5 fps Movie Digest (L)
	Movie Length	(Full HD & HD) Up to 4 GB or 29 min. 59 sec. [7] (L) Up to 4 GB or 1 hour [4] (Super Slow Motion Movie) 30 sec.
FILE TYPES		
	Still Image Type	JPEG compression, (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system, Digital Print Order Format [DPOF] Version 1.1 compliant
	Movies	MOV [H.264 + Linear PCM (stereo)]
DIRECT PRINT		
	Canon Printers	Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge
	PictBridge	Yes (via USB or Wireless LAN)
OTHER FEATURES		
	GPS	GPS via mobile (linked to compatible smartphone)
	Red-Eye Correction	Yes, during shooting and playback

	My Category	Image tagging feature
	Intelligent Orientation Sensor	Yes
	Histogram	Yes
	Playback zoom	Approx. 2x – 10x
	Self Timer	Approx. 2 or 10 sec., Custom
	Menu Languages	English, German, French, Dutch, Danish, Finnish, Italian, Greek, Norwegian, Portuguese, Russian, Swedish, Spanish, Ukrainian, Polish, Czech, Hungarian, Turkish, Simplified Chinese, Chinese (traditional), Japanese, Korean, Thai, Arabic, Romanian, Farsi, Hindi, Malay, Indonesian, Vietnamese
INTERFACE		
	Computer	Hi-Speed USB (MTP, PTP) dedicated connector (Mini-B compatible)
	Other	HDMI Mini Connector (HDMI-CEC compatible) A/V output (PAL/NTSC)
	Computer/Other	Wi-Fi (IEEE802.11b/g/n), (2.4 GHz only) [11]
MEMORY CARD		
	Type	SD, SDHC, SDXC
SUPPORTED OPERATING SYSTEM		
	PC & Macintosh	Windows 8/7 SP1/ Vista SP2/ XP SP3 Mac OS X v10.6 – 10.8 For Wireless LAN connection to a PC: Windows 8/7 SP1 Mac OS X v10.6.8/10.7/10.8.2 or later
SOFTWARE		
	Browsing & Printing	ImageBrowser EX
	Other	PhotoStitch, Map Utility
POWER SOURCE		
	Batteries	Rechargeable Li-ion Battery NB-6LH (battery and charger supplied)
	Battery life	Approx. 250 shots Eco mode approx. 330 shots Approx. 300 min. playback
	A/C Power Supply	Optional, AC Adapter Kit ACK-DC40
ACCESSORIES		
	Cases / Straps	Soft Case DCC-970, DCC-950
	Flash	Canon High Power Flash HF-DC2
	Power Supply & Battery Chargers	AC Adapter Kit ACK-DC40, Battery Charger CB-2LYE
	Other	Canon HDMI Cable HTC-100, interface cable IFC-400PCU
PHYSICAL SPECIFICATIONS		
	Operating Environment	0 – 40 ºC, 10 – 90% humidity
	Dimensions (WxHxD)	104.0 x 69.5 x 80.2 mm
	Weight	Approx. 349 g (including battery/batteries and memory card)

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.
[3] Under conditions where the flash does not fire.
[4] Depending on memory card speed / capacity / compression setting.
[6] Some settings limit availability.
[7] The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 Speed Class 4 or above. (Full HD) 1920 x 1080 Speed Class 6 or above. (iFrame) 1280 x 720 Speed Class 6 or above.
[11] Wi-Fi use may be restricted in certain countries or regions. Wi-Fi support varies by device and region. For more information visit www.canon-europe.com/wirelesscompacts

[13] Values at maximum optical focal length. Cameras whose focal length exceeds 350mm (35mm equivalent) are measured at 350mm.