



## PowerShot SX20 IS Specification Sheet

IMAGE SENSOR		
Type		1/2.3" CCD
Effective Pixels		Approx. 12.1M
Colour Filter Type		Primary Colour
IMAGE PROCESSOR		
Type		DIGIC 4 with iSAPS technology
LENS		
Focal Length		5.0 - 100.0 mm (35mm equivalent: 28-560mm)
Zoom		Optical 20x. Digital approx. 4x (with Digital Tele-Converter approx. 1.5x or 2.0x and Safety Zoom [1]) [2]. Combined approx. 80x
Maximum f/number		f/2.8-f/5.7
Construction		13 elements in 11 groups (1 UD and 1 single-sided UA element)
Image Stabilisation		Yes (shift-type)
Ultrasonic Motor (USM)		Yes, zoom
FOCUSING		
Type		TTL
AF System/ Points		Face Detection, 1-point AF (Any position is available, fixed to centre or Face Select and Track)
AF Modes		Single, Continuous, Servo AF/AE[10]
AF Point Selection		Manual selection using FlexiZone AF/AE, Size (Normal, Small)
AF Lock		On/Off Selectable
AF Assist Beam		Yes
Manual Focus		Yes
Focus Bracketing		Yes
Closest Focusing Distance		0cm (W) from front of lens in Super Macro
EXPOSURE CONTROL		
Metering modes		Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or linked to Face Detection AF or FlexiZone AF frame)
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, 200, 400, 800, 1600
SHUTTER		
Speed		1 - 1/3200 sec (factory default) 15 - 1/3200 sec (total range - varies by shooting mode)
WHITE BALANCE		
Type		TTL
Settings		Auto (including Face Detection WB), Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom
VIEWFINDER		
Viewfinder		EVF (0.44" type), approx. 235,000 dots
Dioptré Correction		Yes
LCD MONITOR		
Monitor		Vari-angle 2.5" PureColor VA (TFT), approx. 230,000 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 (up to 19 levels with external EX Speedlites 270EX and 430EX II. 22 levels with 580EX II [4])
Second Curtain Synchronisation		Yes
Built-in Flash Range		50cm-6.8m (W) / 1.0m-3.7m (T)
External Flash		E-TTL with EX series Speedlites [4], Canon High Power Flash HF-DC1
SHOOTING		

Modes	Auto*, Program AE, Shutter priority AE, Aperture priority AE, Manual, Portrait, Landscape, Night Snapshot, Sports, SCN (Indoor, Sunset, Night Scene, Fireworks, Beach, Aquarium, Foliage, Snow, ISO 3200[5], Color Accent, Color Swap), 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. 1.0 shots/sec.[6], AF: Approx. 0.7 shots/sec.[6], LV: Approx. 0.7 shots/sec.[6] (until memory card becomes full) [7]
<b>RECORDING PIXELS / COMPRESSION</b>	
Image Size	(L) 4000 x 3000, (M1) 3264 x 2448, (M2) 2592 x 1944, (M3) 1600 x 1200, (S) 640 x 480, (W) 3840 x 2160. Resize in playback (M3, S, 320 x 240)
Compression	Fine, Normal
Movies	(HD) 1280 x 720, 30fps, (L)640 x 480, 30fps, (M)320 x 240, 30fps
Movie Length	Up to 4GB or 29 min. 59 sec (HD) [11] Up to 4GB or 1 hour (L, M) [7]
<b>FILE TYPES</b>	
Still Image Type	JPEG compression, (Exif 2.2 [Exif Print] compliant) / Design rule for Camera File system, Digital Print Order Format [DPOF] Version 1.1 compliant
Movies	MOV [H.264 + Linear PCM (monaural / stereo)]

<b>DIRECT PRINT</b>		
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	
<b>OTHER FEATURES</b>		
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, live histogram	
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	
<b>INTERFACE</b>		
Computer	Hi-Speed USB (Mini-B, MTP, PTP)	
Other	HDMI Mini Connector. A/V output (PAL/NTSC)	
<b>MEMORY CARD</b>		
Type	SD, SDHC, MMC, MMCplus, HC MMCplus.	
<b>SUPPORTED OPERATING SYSTEM</b>		
PC & Macintosh	Windows XP SP2-3 / Vista (including SP1-2) Mac OS X v10.4 - 10.5	
<b>SOFTWARE</b>		
Browsing & Printing	ZoomBrowser EX / ImageBrowser	
Other	PhotoStitch	
<b>POWER SOURCE</b>		
Batteries	4x Size-AA Alkaline or NiMH Batteries(NB4-300) (Alkalines supplied)	
Battery life	Approx. 340 shots (with supplied batteries)[8] Approx. 600 shots (with optional Canon NB4-300 batteries)[8] Approx. 720 min. playback (with supplied batteries)[8] Approx. 840 min. playback (with Canon NB4-300 batteries)[8]	
A/C Power Supply	Optional, Power adapter CA-PS700	
<b>ACCESSORIES</b>		
Case	Soft Case DCC-800	
Flash	Canon Speedlites (including 270EX, 430EX II, 580EX, 580EX II [4]), Speedlite Transmitter ST-E2, Off-Camera Shoe Cord OC-E3 High Power Flash HF-DC1	
Power Supply & Battery Chargers	Compact AC power adapter CA-PS700, Battery Charger Kit CBK4-300, Ni-MH Batteries NB4-300	
Other	Canon HDMI Cable HTC-100	
<b>PHYSICAL SPECIFICATIONS</b>		
Operating Environment	0 – 40 °C [9], 10 – 90% humidity	
Dimensions (WxHxD)	124.0 x 88.3 x 86.9 mm	
Weight (body only)	Approx. 560g	

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 during movie recording.

[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.

[4] Not all functions of the flash are supported.

[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.

[9] 0 – 35 °C when NB-3AH is used.

[10] Some settings limit availability.

[11] The following Speed Class memory cards are required for maximum record time: 1280 x 720, 30fps Speed Class 4 or above. 1920 x 1080, 30fps Speed Class 6.