

**Specifications for VPC-SH1**

Model		VPC-SH1
Effective Pixel	Photo	Approx. 4-Megapixels
	Video	Approx. 3.5-Megapixels (in Full HD/HD mode), Approx. 4-Megapixels (in SD mode)
Image Sensor		CMOS sensor, 1/3.6 inch Approx.4.3-Megapixels (total)
Recording media		SD, SDHC, SDXC Memory / Internal Memory: Approx. 50MB
Recording file format		Photos: JPEG (DCF <sup>*1</sup> , DPOF <sup>*2</sup> , Exif Ver.2.2 <sup>*3</sup> ) Videos: ISO standard MPEG-4 AVC/H.264 (.MP4) Audio: 48kHz sampling, 16bit, 2ch, AAC Compression
Resolution (pixels)	Photo	<b>10M</b> : 3648 x 2736, <b>7M [16:9]</b> : 3584 x 2016, <b>4M-H</b> : 2288 x 1712 (low compression), <b>4M-S</b> : 2288 x 1712 (standard compression), <b>3.5M [16:9]</b> : 2496 x 1408 [16:9], <b>2M [16:9]</b> : 1920 x 1080 [16:9], <b>2M</b> : 1600 x 1200, <b>0.9M [16:9]</b> : 1280 x 720 [16:9], <b>0.3M</b> : 640 x 480
	Sequential <sup>*4</sup>	<b>10M</b> : 3648 x 2736, 8fps/Max 16 photos, <b>4M</b> : 2288 x 1712, 8fps/Max 16photos
	Video <sup>*5</sup>	<b>Full-HD</b> : 1920 x 1080(60fields per second/16Mbps) <b>Full-SHQ</b> : 1920 x 1080(30fps/12Mbps) <b>HD-HR</b> : 1280 x 720 (60fps/12Mbps) <b>HD-SHQ</b> : 1280 x 720 (30fps/9Mbps) <b>☆(iFrame)</b> : 960 x 540 (30fps/24Mbps) <b>TV-SHQ</b> : 640 x 480 (30fps/3Mbps)
	High Speed (Slow Motion)	<b>Web-SHR</b> : 448 x 336 (300fps Rec/60fps Play, 1/5 Slow, 8Mbps) <b>Web-UHR</b> : 192 x 108(600fps Rec/60fps Play, 1/10 Slow, 8Mbps)
Lens		23x optical zoom lens; Aperture: F=3.5 (W) - 4.1 (T); Focus distance: f=4.0 to 92.0mm; Galvanometer method structure, Auto focus: 8 groups, 11 elements (2 aspheric elements, 2 aspheric surfaces), Built-in neutral density filter Photos: f=35 - 805mm (=35mm) 23x Optical zoom Videos: f=35 - 1050mm (=35mm) 30x Adv. zoom
Photo range		50cm to infinity (wide), 1.0m to infinity (tele) / Super macro: 1cm - 1m (wide)
Digital zoom		Shooting: 50x max, Playback: 58x max (10M mode, varies with resolution)
Minimum Illumination for Video		~ 10 lux (Auto mode, 1/30 sec.), ~ 4 lux (High-sensitivity/ Lamp mode, 1/15 sec.)
Sensitivity		Auto (ISO50 – 400), Manual (ISO50/100/200/400/800/1600/3200, Switching system)
Digital Image Stabilizer		Photos: Multi-calculation electronic image stabilizer, Videos: Electronic image stabilizer
Uploading Function		Automatic Eye-Fi uploading On/Off, power management, and access point management
Audio		Microphone: Built-in stereo (Sound Zoom), Speaker: Built-in monaural (L+R ch output)
LCD monitor		2.7 inch, Low-temperature polysilicon TFT color widescreen LCD display, Approx. 230,000 pixels (7-level brightness, 285 degrees rotation)
Interface		AV output Video: HDMI/Composite video (NTSC/PAL Audio: Stereo sound) USB 2.0 (high-speed mode compatible)
Power source		Lithium-ion battery x 1(DB-L90 included: 1200mAh) AC-adaptor
Power consumption		Using battery: 2.9W (when shooting videos)
Approx. Battery Life <sup>*6</sup>	Photo	Photos: approx.350 shots (CIPA standard)
	Video	Continuous video filming: ~ 120 min. , Continuous playback: ~ 330 min.
Dimensions/Volume		1.6" (W) x 4.6" (D) x 2.3" (H) (maximum dimension, excluding protruding parts) Volume: ~ 190cc
Weight		~ 7.2 oz (Body only), ~ 8.3 oz (including battery and SD card)

SD Memory Card Type	Video Recording Time (Total Time) <sup>*7</sup>								Audio Memo <sup>*8</sup>
	Full-HD	Full-SHQ	HD-HR	HD-SHQ	☆ (iFrame)*	TV-SHQ	Web-SHR	Web-UHR	
32GB	4hrs02min	5hrs17min	5hr17min	6hrs55min	2hrs45min	16hrs53min	7hrs43min	7hrs43min	262hrs
8GB	1hr01min	1hr21min	1hr21min	1hr46min	42min	4hrs19min	1hr58min	1hr58min	67hrs

SD Memory Card Type	Number of Photographs <sup>*7</sup>										
	10M	7M [16:9]	4M-H	4M-S	3.5M [16:9]	2M [16:9]	2M	0.9M [16:9]	0.3M	10M Cont.	4M Cont.
32GB	9360	12800	15700	23100	25600	42300	44200	81100	194000	9360	23100
8GB	2390	3270	4010	5920	6550	10800	11300	20700	49800	2390	5920

\*1 DCF is the abbreviation for Design rule for Camera File system, established by the Japan Electronics and Information Technology Association (JEITA).

\*2 The DPOF (Digital Print Order Format) is a format for recording on storage media information such as the number of frames and copies desired for printing of images taken on the digital camera.

\*3 Exif Ver.2.2 is an industry standard established for file formatting of digital cameras.

\*4 Reverse Sequential Shot.

\*5 The actual frame rates for this model are 59.94 at 60fps, 29.97 at 30fps, 239.76 fps at 240fps and 599.4fps at 600fps

\*6 Amount of pictures based on CIPA standards. When using a San Disk SD Memory Card (2GB) and bundled Lithium-ion battery. Videos are when filming in Full-HD mode. Playback is when in continuous playback. Through actual operation, time may vary.

\*7 Figure projects time and amount of stills taken which will fill the recording medium. Amount varies by memory card maker, type of photo subject and photographic conditions.

\*8 Audio Memo: Maximum 13h00min. for one file, but will save file and continue recording longer, generating a new file after 13hrs., similar to the effects on the video after reaching 4GB.

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\* Appearance, features and specifications are subject to change without prior notice or obligations.