

Specifications for VPC-CS1

Model		VPC-CS1
Effective Pixel	Photo	Approx. 3.3 Megapixels
	Video	Approx. 2.8 Megapixels (in Full HD/HD mode), Approx. 3.3 Megapixels (in SD mode)
Image Sensor		1/5 inch CMOS sensor, Approx. 3.4 Megapixels (total)
Recording Media		SD, SDHC, SDXC Memory Card ; Internal Memory: Approx. 50MB
Recording File Format		Photos: JPEG (DCF ^{*1} , DPOF ^{*2} , Exif Ver2.2 ^{*3}) / Videos: ISO standard MPEG-4 AVC/H.264 (.MP4) Audio: 48kHz sampling, 16bit, 2ch, AAC Compression
Resolution (pixels)	Photo	8M :3264 x 2448, 6M (16:9): 3328 x 1872, 3M-H : 2048 x 1536 (low compression), 3M-S : 2048 x 1536 (standard compression), 3M (16:9): 2288 x 1288 (16:9), 2M (16:9): 1920 x 1080 (16:9), 2M : 1600 x 1200, 0.9M (16:9): 1280 x 720 (16:9), 0.3M : 640 x 480
	Sequential ^{*4}	8M : 3264 x 2448, 6 fps/Max 20 photos; 3M : 2048 x 1536, 6 fps/Max 20 photos
	Video ^{*5}	Full-HD : 1920 x 1080 (60fields per second/16Mbps) Full-SHQ : 1920 x 1080(30fps/12Mbps) HD-HR : 1280 x 720 (60fps, 12Mbps) HD-SHQ : 1280 x 720 (30 fps/9Mbps) ☆(iFrame) : 960 x 540 (30fps/24Mbps)* TV-SHQ : 640 x 480 (30fps/3Mbps)
Lens		9x optical zoom lens; Aperture: F=2.8 (W) - 3.0(T); Focus distance: f=3.2 to 28.8mm; Galvanometer method structure, Auto focus: 9 groups, 12 elements (3 aspheric elements, 6 aspheric surfaces), Built-in neutral density filter Photo: f=38-342mm (=35mm) 9x optical zoom Video: f=38-380mm (=35mm) 10x Adv. zoom
Photo Range		50cm to infinity (wide), 1.0m to infinity (tele) / Super macro: 1cm - 1m (wide)
Digital Zoom		Shooting: 10x max, Playback: 51x max (8M mode, varies with resolution)
Low-light sensitivity		Approx. 15 lux (Auto mode, 1/30 sec.) Approx. 4 lux (High-sensitivity/ Lamp mode, 1/15 sec.)
Sensitivity		Auto (when LED is off, ISO50 – 400, when LED is on, ISO50 – 800), Manual (ISO50/100/200/400/800/1600, Switching system)
Digital Image Stabilizer		Photos: Multi-Calculation electric image stabilizer ; Videos: Electronic image stabilizer
Uploading Function		Automatic Eye-Fi uploading On/Off, power management, and access point management
LED Light		LED Light On/Off
LED Light Range		Approx. 10cm to 1m Super macro (wide)
Audio		Microphone: Built-in stereo (Sound Zoom), Speaker: Built-in monaural (L+Rch 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-L80 included: 700mAh) AC-adaptor
Power Consumption		Using battery: 3.5 W (when shooting videos)
Approx. Battery Life ^{*6}	Photo	Photos: approx. 200 shots (CIPA standard)
	Video	Continuous video filming: ~ 60 min. (Full-HD mode) /Continuous playback: ~210 min.
Dimensions/Volume		1.06'' (W) x 2.5'' (D) x 4.9'' (H) (maximum dimension, excluding protruding parts) Volume: approx. 126cc
Weight		Approx. 5.0 oz (Body only), Approx. 5.61 oz (including battery and SD card)

SD Memory Card Type	Video Recording Time (Total Time) ^{*7}						
	Full-HD	Full-SHQ	HD-HR	HD-SHQ	☆(iFrame)*	TV-SHQ	Audio Memo ^{*8}
32GB	4hrs2min	5hrs17min	5hrs17min	6hrs55min	2hrs45min	16hrs53min	262hrs
8GB	1hr1min	1hr21min	1hr21min	1hr46min	42min	4hrs19min	67hrs

SD Memory Card Type	Number of Photographs ^{*7}										
	8M	6M (16:9)	3M-H	3M-S	3M (16:9)	2M (16:9)	2M	0.9M (16:9)	0.3M	8M Cont.	3M Cont.
32GB	11,500	14,700	19,400	28,600	30,400	42,300	44,200	81,100	194,000	11,500	28,600
8GB	2,960	3,770	4,980	7,320	7,780	10,800	11,300	20,700	49,800	2,960	7,320

*1 DCF (Design rule for Camera File system) is a standard designed by the Japan Electronics and Information Technology Association (JEITA) primarily to facilitate the use of image files from digital cameras with related devices.

*2 The DPOF (Digital Print Order Format) is a format for recording on storage media information specifying frames and numbers of copies for printing of images taken by digital cameras

*3 Exif Ver2.2 is an industry standard established for file formatting of images from digital cameras.

*4 Reverse Sequential Shot.

*5 For these models 30fps is actually 29.97fps, 60fps is actually 59.94fps.

*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.