

# Specifications - PowerShot SX410 IS

## Type

Compact digital still camera with built-in flash, 40x Optical, 4x Digital and 160x Combined Zoom with Optical Image Stabilizer

## Image Capture Device

### Type

20.0 Megapixel, 1/2.3-inch CCD

### Total Pixels

Approx. 20.5 Megapixels

### Effective Pixels

Approx. 20.0 Megapixels\*

\*Image processing may cause a decrease in the number of pixels.

## Lens

### Focal Length

4.3 (W) - 172.0 (T) mm (35mm film equivalent: 24-960mm)

### Optical Zoom

40x

### Digital Zoom

4.0x

### Focusing Range

Normal: 2.0 in. (5cm) - infinity (W), 4.6 ft. (1.4m) - infinity (T)

Auto/Manual: 0.0 in. (0cm) - infinity (W), 4.6 ft. (1.4cm) - infinity (T)

Macro AF: 0.0 in. - 1.6 ft. (0-50cm) (W)

Quick: 9.8 in. (3.0m) - infinity (W), 9.8 ft. (3.0m) - infinity (T)

### Autofocus System

TTL Autofocus

## Viewfinders

### Optical Viewfinder

Not available

### LCD Monitor

3.0-inch TFT Color LCD with wide viewing angle

### LCD Pixels

Approx. 230,000 dots

### LCD Coverage

Approx. 100%

## Aperture and Shutter

### Maximum Aperture

f/3.4 (W), f/6.3 (T)

**Shutter Speed**

1-1/4000 sec.

15-1 sec. (shooting long exposures)

**Exposure Control****Sensitivity**

Auto, ISO 100-1600

**Light Metering Method**

Evaluative\*, Center-weighted average, Spot\*\*

\* Facial brightness is evaluated in Face Detection AF.

\*\* Metering frame is fixed to the center.

**Exposure Control Method**

AE Lock

**Exposure Compensation**

Still Images:  $\pm 2$  stops in 1/3-stop increments

**White Balance****White Balance Control**

Auto\*, Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom

\* Camera automatically sets the optimal ISO speed according to shooting mode.

**Flash****Built-in Flash**

Auto, Flash On, Slow Synchro, Flash Off

- Facial brightness is also evaluated in Face Detect.

**Flash Range**

1.6 ft. - 16 ft. (W), 4.6 - 8.9 ft. (T) (50cm - 5.0m (W), (1.4m - 2.7m (T))

\*Image brightness may diminish depending on the shooting distance.

**Recycling Time**

10 sec. or less (battery voltage: 3.7 V)

**Flash Exposure Compensation**

Not available

**Shooting Specifications****Shooting Modes**

P, Live View Control, Auto, Portrait, Face Self-timer, Low Light, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect, Snow, Fireworks, Long Shutter

- Shooting movies is done with the movie button

**Photo Effects**

My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color \*

\*Adjustment of contrast sharpness, saturation, red, green, blue and skin tone are available

**Self Timer**

Approx. 10-sec. delay/approx. 2-sec. delay/custom\*

\*Delay time (0-15 sec. (in one-second increments), 20/25/30 sec.) and number of shots (1-10 shots (in one-shot increments)) can be specified.

## Wireless Control

Not Available

## Continuous Shooting

Normal: Approx. 0.5 shots/sec. (in P mode)

Normal: Approx. 2.2 shots/sec. (in Low Light mode)

- Under conditions where the flash does not fire automatically.
- Differs depending on the zoom position.

## Image Storage

### Storage Media

SD Memory Card, SDHC Memory Card, SDXC Memory Card

### File Format

Design rule for Camera File system, DPOF (Version 1.1) compliant

### Image Recording Format

Superfine / Fine

### JPEG Compression Mode

Still Image: Exif. 2.3 (JPEG)

Video: MOV (Image: H.264; Audio: Linear PCM (Monaural))

### Number of Recording Pixels

Still Images:

1) 16:9 - Large: 4608 x 2592; Medium 1: 3264 x 1832; Medium 2: 1920 x 1080; Small: 640 x 360

2) 3:2 - Large: 4608 x 3072; Medium 1: 3264 x 2176; Medium 2: 2048 x 1368; Small: 640 x 424

3) 4:3 - Large: 4608 x 3456; Medium 1: 3264 x 2448; Medium 2: 2048 x 1536; Small: 640 x 480

4) 1:1 - Large: 3456 x 3456; Medium 1: 2448 x 2448; Medium 2: 1536 x 1536; Small: 480 x 480

\*2560 x 1920 (M) when in Low Light

Videos:

HD 1280 x 720: 25 fps

Miniature Effect HD 1280 x 720: 5 fps / 2.5 fps / 1.25 fps

Miniature Effect 640 x 480: 5 fps / 2.5 fps / 1.25 fps

640 x 480: 30 fps (29.97)

## Number of Recordable Images

### Image data

		16:9		3:2		4:3		1:1	
		File Size (KB)	16GB	File Size (KB)	16GB	File Size (KB)	16GB	File Size (KB)	16GB
Large (L1)	SF	7,080	2,178	8,184	1,890	9,093	1,698	6,793	2,270
	F	4,438	3,470	5,054	3,055	5,569	2,760	4,161	3,680
Medium 1 (M1)	SF	3,847	3,982	4,361	3,520	4,785	3,217	3,589	4,262
	F	2,524	6,073	2,790	5,459	3,018	5,061	2,264	6,748
Medium 2 (M2)	SF	1,095	13,497	1,440	10,563	1,602	9,344	1,213	12,459
	F	604	24,296	793	18,689	893	16,755	668	22,087
Small (S)	SF	188	69,418	221	60,741	249	53,992	188	69,418

	F	113	97,186	133	80,988	150	80,988	113	97,186
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		File Size (KB)	Approx. Number of Shots to 16 GB Memory Card
Medium* (M) in Low Light	F	1,848	8,235

Note: SF=Superfine F=Fine

\* When in Low Light.

• The approximate number of images recordable on memory cards other than the above can be calculated by using the above figures as a reference and extrapolating accordingly.

## Time of Recordable Movies

### Movie data

Shooting Modes	Pixels	Frame Rate		Movie Size (KB/sec.)	Approximate Total Movie Time Recordable to 16 GB memory Card	Single Clip Approx. Recording Time *1	Video Recording Bit Rate
		Shooting	Playback				
Other than Below	HD (1280 x 720)	25 fps	25 fps	1,781	2 hr. 21 min. 58 sec.	29 min. 59 sec.	Approx. 15 Mbps
	VGA (640 x 480)	30 fps*2	30 fps*2	607	6 hr. 44 min. 38 sec.	1 hr.	Approx. 3 Mbps
Miniature Effect	HD (1280 x 720)	5 fps (5x Speed)	25 fps	319	13 hr. 11 min. 58 sec.	29 min. 59 sec.	—
		2.5 fps (10x Speed)	25 fps	159	25 hr. 46 min. 08 sec.	29 min. 59 sec.	—
		1.25 fps (20x Speed)	25 fps	80	49 hr. 02 min. 56 sec.	29 min. 59 sec.	—
	VGA (640 x 480)	6 fps (5x Speed)	30 fps*2	84	46 hr. 54 min. 59 sec.	1 hr.	—
		3 fps (10x Speed)	30 fps*2	42	86 hr. 19 min. 35 sec.	1 hr.	—
		1.5 fps (20x Speed)	30 fps*2	21	148 hr. 50 min. 20 sec.	1 hr.	—

\*1 Using an SD Speed Class 10 / UHS-I compatible memory card

• Recording stops automatically once the file size reaches 4 GB or the memory card becomes full.

• Recording may stop unexpectedly if a memory card with a low Speed Class is used.

\*2 Actual frame rate is 29.97 fps.

## Playback Specifications

### Playback Modes File

Stills & Videos:

Auto Rotate (Automatic vertical/horizontal detection), Image Advance (Transition Effects, Scroll Display), Rotate, Favorites, My Category, Smart Shuffle, Group Playback, Slideshow (Repeat, Interval, Effect)

Still Images:

Single, Index (6-100 thumbnails), Magnification (2-10x), Information Display, Red-eye Correction, i-Contrast, Resize, My Colors, Histogram, Overexposure Warning

Videos:

Normal Playback\*1, Skip Backward\*2, Previous Frame\*3, Next Frame\*3, Skip Forward\*2

• Displays playback position and shooting time

\*1 Audio settings available in 5 levels \*2 Approximately 4 seconds \*3 Slow motion available

## Erasing Specifications

### Erase Modes

Select Image, Select Range

- The image data in the memory card stored with the Design rule for Camera File systems format can be erased (however, protected images cannot be erased).
- Using the Movie editing function, sections of the movie (1 sec. increments) can be deleted.

## Interfaces

### Video Out

NTSC/PAL (dedicated connector (female) with unified type of digital, audio and video)

### Audio Out

Monaural (dedicated connector (female) with unified type of digital, audio and video)

### Other

SD memory card slot; direct connection to Canon SELPHY, PIXMA Photo Printers & PictBridge compatible printers

### Power Source

Battery Pack NB-11LH, AC Adapter Kit ACK-DC90

### Shooting Capacity

Approx. 185 shots

Approx. 245 shots in ECO Mode

### Playback Time

Approx. 4 hours

## Physical Specifications

### Operating Temperature

32-104°F/0-40°C

### Operating Humidity

10-90%

### Dimensions (W x H x D)

4.11 x 2.72 x 3.35 in. / 104.4 x 69.1 x 85.1mm

### Weight

11.5 oz. / 325g (CIPA standard)

10.9 oz. / 308g (camera only)

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† Prices and specifications subject to change without notice. Actual prices are determined by individual dealers and may vary.