Specifications

Type
Compact digital still camera with built-in flash, 16x Optical Zoom, 4x Digital Zoom and 64x Combined Optical Zoom with Optical Image Stabilizer

Image Capture Device

Type
16.0 Megapixel, 1/2.3-inch CCD

Total Pixels
Approx. 16.6 Megapixels

Effective Pixels
Approx. 16.0 Megapixels

Lens

Focal Length
5.0 (W) - 80.0 (T) mm (35mm film equivalent: 28 - 448 mm)

Digital Zoom
4.0x

Focusing Range
Normal: 2.0 in. (5cm) - infinity (W), 2.0ft. (60cm) - infinity (T)
Auto/Manual: 0.4 in. (1cm) - infinity (W), 2.0ft. (60cm) - infinity (T)
Macro AF: 0.4 in. - 1.6ft. (1 - 50cm) (W)

Autofocus System
TTL Autofocus, Manual Focus

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/3.5 (W) , f/5.9 (T)

Shutter Speed
1-1/3200 sec.

15-1/3200 sec. (Total shutter speed range)

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
Manual Exposure, Program Shift, Safety Shift, AE Lock

Exposure Compensation
Still Images: ± stops in 1/3-stop increments
Videos: ± 2 stops in 1/3-stop increments (Not available when shooting movies)

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. - 9.8 ft. (W), 2.0 - 6.6 ft. (T) (50cm - 3.0m (W), (60cm - 2.0m (T))

Image brightness may diminish depending on the shooting distance

Recycling Time
15 sec. or less (battery voltage: 3.0 V)

Flash Exposure Compensation
±2 stops in 1/3-stop increments

Shooting Specifications

Shooting Modes
M, Av, Tv, P, Live View Control, Auto, SCN*[1], Creative Filters[2], Discreet, Movie[3]

- Shooting movies is possible with the movie button

[1] Portrait, Face Self-timer, Low Light, Snow, Fireworks

[2] Fisheye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect

[3] Standard

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

1. Normal: Approx. 0.8 shots/sec. (in P mode)
    Normal: Approx. 2.8 shots/sec. (in Low Light mode)

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

3. LV: Approx. 0.6 shots/sec. (in P 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: 2.3 (JPEG)
Video: MOV (image data: H.264, Audio: Linear PCM (Stereo))

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: 1600 x 1064; Small: 640 x 424

3.   4:3 - Large: 4608 x 3456; Medium 1:3264 x 2448; Medium 2: 1600 x 1200; Small: 480 x 480

4.   1:1 - Large: 3456 x 3456; Medium 1: 2448 x 2448; Medium 2: 1200 x 1200; Small: 480 x 480

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: 6 fps / 3 fps / 1.5 fps
640 x 480: 30 fps (29.97)

Number of Recordable Images

Image data

		16:9			3:2			4:3		
		File Size (KB)	8GB	32GB	File Size (KB)	8GB	32GB	File Size (KB)	8GB	32GB
Large (L1)	SF	5184	1506	6081	6144	1272	5136	6912	1131	4567
	F	3069	2531	10219	3638	2135	8620	4093	1903	7684
Medium 1 (M1)	SF	2595	2958	11943	3083	2505	10115	3436	2252	9094
	F	1537	4912	19826	1825	4162	16802	2060	3721	15020
Medium 2 (M2)	SF	1095	6822	27537	899	8187	33044	1002	7442	30040
	F	604	12280	49567	496	14448	58314	558	12927	52176
Small (S)	SF	188	35089	141622	221	30703	123919	249	27291	110150
	F	113	49125	198271	133	40937	165225	150	40937	165225
Medium* (M)	F	NA	NA	NA	NA	NA	NA	1144	6638	26792

		1:1		
		File Size (KB)	8GB	32GB
Large (L1)	SF	5184	1506	6081
	F	3069	2531	10219
Medium 1 (M1)	SF	2601	2958	11943
	F	1540	4912	19826
Medium 2 (M2)	SF	760	9824	39653
	F	420	16374	66090
Small (S)	SF	188	35089	141622
	F	113	49125	198271
Medium* (M)	F	NA	NA	NA

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

	Miniature Effect					
	HD: 1280 x 720			640 x 480		
	5x	10x	20x	5x	10x	20x
	5 fps[1]	2.5 fps[1]	1.25 fps[1]	6 fps[2]	3 fps[2]	1.5 fps[2]
Movie Size (KB/sec.)	487	243	122	246	123	61
8GB	4 hrs. 00 min. 33 sec.	7 hrs. 34 min. 23 sec.	13 hrs. 37 min. 54 sec.	7 hrs. 34 min. 23 sec.	13 hrs. 37 min. 54 sec.	22 hrs. 43 min. 11 sec.
32GB	16 hrs. 11 min. 39 sec.	30 hrs. 35 min. 22 sec.	55 hrs. 03 min. 40 sec.	30 hrs. 35 min. 22 sec.	55 hrs. 03 min. 40 sec.	91 hrs. 46 min. 07 sec.

	Other	
	HD: 1280 x 720	640 x 480
	25 fps	30 fps[3]
Movie Size (KB/sec.)	2621	1416
8GB	49 min. 15 sec.	1 hr. 28 min. 53 sec.
32GB	3 hrs. 19 min. 00 sec.	5 hrs. 59 min. 05 sec.

[1] Playback frame rate is 25 fps.
[2] Playback frame rate is 30 fps[3].
[3] 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 (4-130 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]

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

Erasing Specifications

Erase Modes
Select Image, Select Range, Select All Images

- 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
Stereo (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-6LH, AC Adapter Kit ACK-40

Shooting Capacity
Approx. 300 shots
Approx. 440 shots in ECO Mode

Playback Time
Approx. 7 hours

Physical Specifications

Operating Temperature
32-104°F/0-40°C

Operating Humidity
10-90%

Dimensions (W x H x D)
4.25 x 2.80 x 1.73 in. / 108.0 x 71.0 x 43.9mm

Weight
8.85 oz. / 251g (CIPA standard)
8.04 oz. / 228g (camera only)

Note: 27 display languages provided (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified/Traditional Chinese, Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Romanian, Ukrainian, Farsi, and Hindi).
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