

# Specifications

## Type

Compact digital still camera with built-in flash, 30x Optical, 4x Digital and 120x Combined Zoom with Optical Image Stabilizer

## Image Capture Device

### Type

12.1 Megapixel, 1/2.3-inch CMOS

### Total Pixels

Approx. 12.8 Megapixels

### Effective Pixels

Approx. 12.1 Megapixels

## Lens

### Focal Length

4.3 (W) - 129.0 (T) mm (35mm film equivalent: 24-720mm)

### 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. (1.4m) - infinity (T)  
Macro AF: 0.0 in. - 1.6 ft. (0-50cm) (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. 461,000 dots

### LCD Coverage

Approx. 100%

## Aperture and Shutter

### Maximum Aperture

f/3.4 (W) - f/5.8 (T)

### Shutter Speed

1-1/1600 sec.  
15-1/1600 sec. (in Tv and M modes)

## Exposure Control

**Sensitivity**

Auto, ISO 80-3200

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

Videos:  $\pm 2$  stops in 1/3-stop increments (not available during shooting)

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

Auto\*, Day Light, 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), 1.6 - 9.8 ft. (T) (50cm - 5.0m (W), (50cm - 3.0m (T))

Image brightness may diminish depending on the shooting distance

**Recycling Time**

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

**Flash Exposure Compensation**

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

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

M, Av, Tv, P, Live View Control, Auto, Movie Digest, SCN\*<sup>1</sup>, Creative Filters\*<sup>2</sup>, Discreet, Movie\*<sup>3</sup>

- Shooting movies is possible with the movie button

\*<sup>1</sup> Portrait, Face Self-timer, High-speed Burst, Low Light, Snow, Fireworks

\*<sup>2</sup> Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect

\*<sup>3</sup> Standard, Super Slow Motion Movie

**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. 3.8 shots/sec. (in P mode)  
Normal: Approx. 10.5 shots/sec. (in High-speed Burst mode)
2. AF: Approx. 1.0 shots/sec. (in P mode)
3. LV: Approx. 1.0 shots/sec. (in P mode)

- Under conditions where the flash does not fire automatically.
- Differs according to 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 (Stereo))

**Number of Recording Pixels**

Still Images:

1. 16:9 - Large: 4000 x 2248; Medium 1: 2816 x 1584; Medium 2: 1920 x 1080; Small: 640 x 360
2. 3:2 - Large: 4000 x 2664; Medium 1: 2816 x 1880; Medium 2: 1600 x 1064; Small: 640 x 424
3. 4:3 - Large: 4000 x 3000; Medium 1: 2816 x 2112; Medium 2: 1600 x 1200; Small: 480 x 480
4. 1:1 - Large: 2992 x 2992; Medium 1: 2112 x 2112; Medium 2: 1200 x 1200; Small: 480 x 480

Videos:

Full HD 1920 x 1080: 24 fps<sup>\*1</sup>

HD 1280 x 720: 30 fps<sup>\*2</sup>

Miniature Effect HD 1280 x 720<sup>\*3</sup>: 6 fps / 3 fps / 1.5 fps

Miniature Effect 640 x 480<sup>\*3</sup>: 6 fps / 3 fps / 1.5 fps

640 x 480: 30 fps<sup>\*2</sup>

\*1 Actual frame rate is 23.976 fps.

\*2 Actual frame rate is 29.97 fps.

\*3 Playback rate is 30 fps<sup>\*2</sup>

## 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	3903	1996	8059	4625	1681	6789	5208	1497	6044
	F	2311	3318	13396	2738	2822	11394	3084	2505	10115
Medium 1 (M1)	SF	2026	3778	15251	2405	3189	12874	2720	2855	11526
	F	1210	6297	25418	1436	5339	21550	1620	4723	19064
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	558	12927	52176

		1:1		
		File Size (KB)	8GB	32GB
Large (L1)	SF	3885	1996	8059
	F	2301	3364	13579
Medium 1 (M1)	SF	2026	3778	15251
	F	1210	6297	25418
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 or High-speed Burst.

• 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
	6 fps <sup>*3</sup>	3 fps <sup>*3</sup>	1.5 fps <sup>*3</sup>	6 fps <sup>*3</sup>	3 fps <sup>*3</sup>	1.5 fps <sup>*3</sup>
<b>Movie Size (KB/sec.)</b>	573	286	143	245	122	61
<b>8GB</b>	3 hrs. 35 min. 13 sec.	6 hrs. 48 min. 56 sec.	11 hrs. 21 min. 35 sec.	7 hrs. 34 min. 23 sec.	13 hrs. 37 min. 54 sec.	22 hrs. 43 min. 11 sec.
<b>32GB</b>	14 hrs. 29 min. 22 sec.	27 hrs. 31 min. 49 sec.	45 hrs. 53 min. 03 sec.	30 hrs. 35 min. 22 sec.	55 hrs. 03 min. 40 sec.	91 hrs. 46 min. 07 sec.

	Other		
	Full HD 1920 x 1080	HD: 1280 x 720	640 x 480
	24 fps <sup>*1</sup>	30 fps <sup>*2</sup>	30 fps <sup>*2</sup>
<b>Movie Size (KB/sec.)</b>	4355	3053	1415
<b>8GB</b>	29 min. 37 sec.	42 min. 09 sec.	1 hr. 28 min. 53 sec.
<b>32GB</b>	1 hrs. 59 min. 41 sec.	2 hrs. 50 min. 17 sec.	5 hrs. 59 min. 05 sec.

\*<sup>1</sup> Actual frame rate is 23.976 fps.

\*<sup>2</sup> Actual frame rate is 29.97 fps.

\*<sup>3</sup> Playback rate is 30 fps<sup>\*2</sup>

## 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 (Interval, Repeat, 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<sup>\*1</sup>, Skip Backward<sup>\*2</sup>, Previous Frame<sup>\*3</sup>, Next Frame<sup>\*3</sup>, Skip Forward<sup>\*2</sup>

- Displays playback position and shooting time Using the software included with the camera (ImageBrowser EX), there are 8 levels (1/8x to 1x) of playback speed for Super Slow Motion Movies possible on a computer.

\*<sup>1</sup> Audio settings available in 5 levels

\*<sup>2</sup> Approximately 4 seconds

\*<sup>3</sup> Slow motion available

## Erasing Specifications

**Erase Modes**

Select Image, Select Range, 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), Mini-HDMI connector

**Audio Out**

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

**Other**

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

**Power Source**

Battery Pack NB-6LH, Compact Power Adapter CA-DC10 (included with AC Adapter Kit ACK-DC40)

**Shooting Capacity**

Approx. 250 shots

Approx. 330 shots in ECO Mode

**Playback Time**

Approx. 5 hours

**Physical Specifications****Operating Temperature**

32-104°F/0-40°C

**Operating Humidity**

10-90%

**Dimensions (W x H x D)**

4.09 x 2.74 x 3.16 in. / 104.0 x 69.5 x 80.2mm

**Weight**

12.3 oz. / 349g (CIPA standard)

11.1 oz. / 316g (camera only)

Note: 30 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, Hindi, Malaysian, Indonesian, Vietnamese).

All data are based on Canon's Standard Test Method. Subject to change without notice.

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