

# Specifications - PowerShot ELPH 160

## Type

Compact digital still camera with built-in flash, 8x Optical, 4x Digital and 32x Combined Zoom

## 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

5.0 (W) - 40.0 (T) mm (35mm film equivalent: 28-224mm)

### Digital Zoom

4x

### Focusing Range

Auto: 0.4 in. (1 cm) - infinity (W), 4.3 ft. (1.3 m) - infinity (T);

Normal: 2.0 in. (5 cm) - infinity (W), 4.3 ft. (1.3 m) - infinity (T); Macro: 0.4 in. - 1.6 ft. (1-50 cm) (W);

Infinity: 9.8 ft. (3 m) - infinity (W,T)

### Autofocus System

TTL Autofocus

## Viewfinders

### Optical Viewfinder

Not Available

### LCD Monitor

2.7-inch TFT Color LCD with wide viewing angle (4:3)

### LCD Pixels

Approx. 230,000 dots

### LCD Coverage

Approx. 100%

## Aperture and Shutter

### Maximum Aperture

f/3.2 (W), f/6.9 (T)

### Shutter Speed

1-1/2000 sec.

15-1 sec. (Long Exposure mode)

## 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: ±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. - 9.8 ft. (W), 4.3 - 4.9 ft. (T) (50cm - 3.0m (W), (1.3m - 1.5m (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

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

### Photo Effects

Not 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. 0.8 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**

Fine

#### **JPEG Compression Mode**

Still Image: Exif. 2.3 (JPEG)

Video: MOV (Image: MPEG-4 AVC/H.264; Audio: Linear PCM (Monaural))

#### **Number of Recording Pixels**

Still Images (4:3 Aspect Ratio): Large: 5152 x 3864

Medium 1: 3648 x 2736

Medium 2: 2048 x 1536

Small: 640 x 480

Wide: 5152 x 2896

Medium: 2560 x 1920 (in Low Light & Digital IS modes)

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**

		4:3	
		File Size (KB)	16 GB
Large (L)	F	5,569	2,760
Medium 1 (M1)	F	3,018	5,061
Medium 2 (M2)	F	893	16,755
Small (S)	F	150	80,988
Wide (W)	F	4,438	3,470
Medium* (M)	F	1,848	8,235

Note: F=Fine

\* When in Low Light and Digital IS modes.

• 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						Other	
	HD: 1280 x 720			VGA: 640 x 480			HD: 1280 x 720	VGA: 640 x 480
Shooting	5 fps (5x Speed)	2.5 fps (10x Speed)	5 fps (20x Speed)	6 fps (5x Speed)	3 fps (10x Speed)	5 fps (20x Speed)	25 fps	30 fps* <sup>2</sup>
Playback	25 fps			30 fps* <sup>2</sup>				
Single Clip Approx. Recording Timefps* <sup>2</sup>	29 min. 59 sec.			1 hr.			29 min. 59 sec.	1 hr.
Video Recording Bit Rate	NA			NA			Approx. 15 Mbps	Approx. 3 Mbps
Movie Size (KB/sec.)	319	159	80	84	42	21	1781	607
16GB	13 hrs. 11 min. 58 sec.	25 hrs. 46 min. 08 sec.	49 hrs. 02 min. 56 sec.	46 hrs. 54 min. 59 sec.	86 hrs. 19 min. 35 sec.	148 hrs. 50 min. 20 sec.	2 hrs. 21 min. 58 sec.	6 hrs. 44 min. 38 sec.

\*<sup>1</sup> 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.

\*<sup>2</sup> 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, 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\*<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

\*<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, 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 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/NB-11L, AC Adapter Kit ACK-90

### **Shooting Capacity**

Approx. 230 shots

Approx. 310 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)**

3.75 x 2.14 x 0.87 in. / 95.2 x 54.3 x 22.1mm

### **Weight**

4.48 oz. / 127g (CIPA standard)

3.92 oz. / 111g (Body only)