

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 ^{*2}
Playback	25 fps			30 fps ^{*2}				
Single Clip Approx. Recording Time ^{fps*2}	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.

^{*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, 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, 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)