Image Capture Device
Type
20.3 Megapixel, 1/2.3-inch CMOS
Total Pixels
Approx. 21.1 Megapixels
Effective Pixels
Approx. 20.3 Megapixels*
*Image processing may cause a decrease in the number of pixels.

Lens
Focal Length
4.5mm (W) - 135.0mm (T) (35mm film equivalent: 25-750mm)
Optical Zoom
30x
Digital Zoom
4.0x
Focusing Range
Auto: 0.4 in. (1 cm) - infinity (W), 4.6 ft. (1.4 m) - infinity (T);
Normal: 2.0 in. (5 cm) - infinity (W), 4.6 ft. (1.4 m) - infinity (T);
Macro: 0.4 in. - 1.6 ft. (1 - 50 cm);
Sports: 3.3 ft. (1 m) - infinity (W), 26.0 ft. (8m) - infinity (T)

Autofocus System
TTL Autofocus, Manual Focus

Viewfinders
Optical Viewfinder
Not available
LCD Monitor
3.0-inch TFT Color LCD with wide viewing angle (4:3)

LCD Pixels
Approx. 922,000 dots
LCD Coverage
Approx. 100%

Aperture and Shutter
Maximum Aperture
f/3.2 (W), f/6.9 (T)
Shutter Speed
1 - 1/3200 sec.
15 - 1/3200 sec. (in Tv and M Modes)

Exposure Control
Sensitivity
Auto, ISO 80-3200
Available in 1-step increments
Light Metering Method
Evaluative*¹, Center-weighted average, Spot*²

*¹ Facial brightness is evaluated (Face Detect AE) in Face Detect.
*² Fixed to Center, linked to AF frame

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

White Balance Control
Auto*, Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom

* Facial color is evaluated in Face Detect (Face Detect WB).
  • Adjusts the white balance separately for the main subject and the background when the flash fires

Flash
Built-in Flash
Auto, On, Slow Synchro, Off
  • Facial brightness is also evaluated in Face Detect
Flash Range
1.6 - 11 ft. (W), 4.6 - 6.6 ft. (T) / (50cm - 3.5m (W), 1.4 - 2.0m (T))
  • Image brightness at the corners may diminish depending on the shooting distance
Recycling Time
10 seconds or less (battery voltage: 3.7 V)
Flash Exposure Compensation
±2 stops in 1/3 increments

Shooting Specifications
Shooting Modes
M, Av, Tv, P, Live View Control, Hybrid Auto, Auto, Creative Shot¹, Sports, Portrait, Smart Shutter², Handheld Night Scene, Low Light, Snow, Fireworks, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Soft Focus, Monochrome, Super Vivid, Poster Effect, Standard Movie, Short Clip, iFrame Movie

¹Auto, Retro, Monochrome, Special and Natural effects
²Smile, Wink Self-timer, FaceSelf-timer
Shooting movies is possible with the movie button
Photo Effects
My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin, Darker Skin, 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
Wireless Control
Wi-Fi™ and NFC
Continuous Shooting
Normal: Approx. 3.1 shots/sec. (in P mode)
Normal: Approx. 8.5 shots/sec. (in High-speed Burst HQ)
  • Under conditions where the flash does not fire automatically.
  • Differs depending on the zoom position.

Image Storage
Storage Media
SD/SDHC/SDXC and UHS-I Memory Cards

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

Image Recording Format
JPEG (Superfine, Fine)
JPEG Compression Mode
Still Image: Exif 2.3 JPEG
Video: MP4 (Image data: MPEG-4 AVC/H.264; Audio data: MPEG-4 AAC-LC (Stereo))

Number of Recording Pixels
Still Images:
1) 16:9 - Large: 5184 x 2912; Medium 1: 3648 x 2048; Medium 2: 1920 x 1080; Small: 640 x 360
2) 3:2 - Large: 5184 x 3456; Medium 1: 3648 x 2432; Medium 2: 2048 x 1368; Small: 640 x 424
3) 4:3 - Large: 5184 x 3888; Medium 1: 3648 x 2736; Medium 2: 2048 x 1536; Small: 640 x 480
4) 1:1 - Large: 3888 x 3888; Medium 1: 2736 x 2736; Medium 2: 1536 x 1536; Small: 480 x 480
5) In Low Light: Medium: 2592 x 1944

Videos:
Full HD 1920 x 1080: 60 fps (59.94), 30 fps (29.97)
iFrame Movie 1920 x 1080: 30 fps (29.97)
HD 1280 x 720: 30 fps (29.97)
Digest Movie 1280 x 720: 30 fps (29.97)
Miniature Effect 1280 x 720*: 6 fps, 3 fps, 1.5 fps
Miniature Effect 640 x 480*: 6 fps, 3 fps, 1.5 fps
Short Clip 1280 x 720: 30 fps (29.97)
*1Playback: 30 fps (29.97)