Effective pixels

Effective pixels

20.3 million
(Image processing may reduce the number of effective pixels.)

Image sensor

Image sensor

1/2.3-in. type CMOS
Total pixels: approx. 21.14 million

Lens

Lens

NIKKOR lens with 35x optical zoom

Focal length

4.3-151 mm (angle of view equivalent to that of 24–840 mm lens in 35mm [135] format)

f/-number

f/3.4-6.9

Construction

13 elements in 11 groups (4 ED lens elements)

Digital zoom magnification

Digital zoom magnification

Up to 4x (angle of view equivalent to that of approx. 3360 mm lens in 35mm [135] format)

Vibration reduction

Vibration reduction

Lens shift and electronic VR (movies)

Autofocus (AF)

Autofocus

Contrast-detect AF

Focus range

[W]: Approx. 50 cm (1 ft 8 in.)-∞
[T]: Approx. 2 m (6 ft 7 in.)-∞
Macro mode: Approx. 1 cm (0.4 in.)-∞ (wide-angle position)
(All distances measured from center of front surface of lens)

Focus-area selection

Face priority, center, manual with 99 focus areas, subject tracking, target finding AF, touch AF

Monitor

Monitor

7.5 cm (3 in.),approx. 921 kdot   TFT LCD (RGBW) with antireflection coating, and 6level brightness adjustment

Frame coverage (shooting mode)

Approx. 98% horizontal and vertical (compared to actual picture)

Frame coverage (playback mode)

Approx. 100% horizontal and vertical (compared to actual picture)

Storage

Media

SD , SDHC , SDXC

File system

DCF and Exif 2.3 compliant

File formats

Still images: JPEG
Movies: MP4 (Video: H.264/MPEG-4 AVC, Audio: AAC stereo)

Image size (pixels)

Image size (pixels)

- 20M (High) [5184 x 3888★]
- 20M [5184 x 3888]
- 8M [3648 x 2736]
- 4M [2272 x 1704]
- 2M [1600 x 1200]
- VGA [640 x 480]
- 16:9 15M [5184 x 2920]
- 1:1 [3888 x 3888]

ISO sensitivity (Standard output sensitivity)

ISO 80-1600

Exposure

Metering mode

Matrix, center-weighted (digital zoom less than 2x), spot (digital zoom 2x or more)

Exposure control

Programmed auto exposure and exposure compensation (–2.0–+2.0 EV in steps of 1/3 EV)

Shutter

Shutter

Mechanical and CMOS electronic shutter

Speed

1/2000-1 s
- 1/2000–8 s (when ISO sensitivity is fixed at ISO 80, 100 or 200 in S, A, or M mode)
- 1/4000 s (maximum speed during high-speed continuous shooting)
- 4 s (Fireworks show scene mode)
- 25 s (Star trails of Multiple exp. Lighten scene mode)

Self-timer

Can be selected from 10 s, 5 s and 2 s

Aperture

Aperture

Electronically-controlled 3-blade iris diaphragm

Range

7 steps of 1/6 EV (W) (A, M mode)

Flash

Range (approx.) (ISO sensitivity: Auto)

[W]: 0.5–6.0 m (1 ft 8 in.–19 ft)
[T]: 1.5–3.0 m (4 ft 12 in. –9 ft 10 in.)

Flash control

TTL auto flash with monitor preflashes

Interface

USB connector

Micro-USB connector , Hi-Speed USB
Do not use any USB cable other than the UC-E21 for Micro-USB
connector.
Supports Direct Print (PictBridge)

HDMI output connector

HDMI micro connector (Type D)

Wi-Fi (Wireless LAN)

Standards

IEEE 802.11b/g (standard wireless LAN protocol)

Operating frequency

2412–2462 MHz (1–11 channels)

Authentication

OPEN/WPA2-PSK

Access protocols

Infrastructure

Bluetooth

Communication protocols

Bluetooth Specification Version 4.1

Supported languages

Supported languages

Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese

Power sources

Power sources

One Rechargeable Li-ion Battery EN-EL12 (included)
AC Adapter EH-62F (available separately)

Charging time

Approx. 2 h 20 min (when using Charging AC Adapter EH-71P and when no charge remains)

Battery life*1

Still images

Approx. 270 shots when using EN-EL12

Movie recording (actual battery life for recording)*2

Approx. 50 min (1080/30p) when using EN-EL12

Tripod socket

Tripod socket

1/4 (ISO 1222)

Dimensions / weight

Dimensions (WxHxD)

Approx. 113.0 x 66.5 x 39.9 mm (4.5 x 2.7 x 1.6 in.)
(excluding projections)

Weight

Approx. 299 g (10.6 oz) (including battery and memory card)

Operating environment

Temperature

0°C-40°C (32°F-104°F)

Humidity

85% or less (no condensation)

Supplied accessories*3

Supplied accessories

Rechargeable Li-ion Battery EN-EL12, Charging AC Adapter EH-71P*, USB Cable UC-E21, Camera Strap
*A plug adapter is included if the camera was purchased in a country or region that requires a plug adapter. The shape of the plug adapter varies with the country or region of purchase.

- Unless otherwise stated, all figures assume a fully-charged battery and an ambient temperature of 23 ±3°C (73.4 ±5.4°F) as specified by the Camera and Imaging Products Association (CIPA).

*1 Battery life does not reflect the use of SnapBridge and may vary with the conditions of   use, including temperature, the interval between shots, and the length of time that menus and images are displayed.
*2 Individual movie files cannot exceed 2 GB in size or 29 minutes in length. Recording may end before this limit is reached if camera temperature becomes elevated.
*3 Supplied accessories may differ by country or area.