

Product Specifications

Advanced Features

- Image Stabilization : Optical SteadyShot
 - Photo Creativity : Yes
 - Intelligent Auto : Yes
 - Sweep Panorama : Intelligent Sweep Panorama (360)
 - Anti Motion Blur : Yes
 - Wi-Fi : Yes
 - Face Detection : Yes (eight faces max)
 - Smile Shutter™ technology : Yes
 - Picture Effects : Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.
 - Superior Auto : Yes
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Convenience Features

- Red-Eye Reduction : On / Off
 - Erase/Protect : Erase: Single / Select / Date / Folder Protect: Single / Folder / Date
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Drive System

- Continuous Shooting Speed : Approx. 10 fps (for up to 10 shots)
 - Shutter Speeds : iAuto (4" - 1/2000) / Program Auto (1" - 1/2000) / Aperture Priority (8" - 1/2000) / Shutter Priority (30" - 1/2000) / Manual (30" - 1/2000)
 - Self-timer : Off / 10sec. / 5sec. / 2sec. / 3 consecutive shots with 10sec. 5sec. or 2sec. delay selectable / 3 consecutive bracketing shots with 10sec. 5sec. or 2sec. delay selectable
 - Drive Mode : Single, Continuous shooting, Self-timer, Self-timer(cont.) Bracket: Continuous, Single, White balance, DRO bracketing
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Exposure System

- D-Range Optimizer : Off, Dynamic Range Optimizer (Auto/Level 1-5), Auto High Dynamic Range: Off, Auto Exposure Difference, Exposure difference Level (1.0-6.0EV, 1.0EV step)
 - Exposure Compensation : +/- 3.0 EV (1/3 EV step)
 - Minimum Illumination : [Movie]: Auto: 6lux (Shutter Speed 1/30)
 - Exposure Settings : [Still] Intelligent Auto, Superior Auto, Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, MR(Memory Recall) 1,2,3, Movie Mode(Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure), Panorama, Scene Selection
 - Scene Mode(s) : Portrait, Advanced Sports Shooting, Landscape, Sunset, Night Scene, Handheld Twilight, Night Portrait, Anti Motion Blur, Pet Mode, Gourmet, Beach, Snow, Fireworks, Soft Skin, High Sensitivity
 - Metering Modes : Multi Pattern, Center Weighted, Spot
 - Metering Sensitivity : EV 2 to 16 (at ISO100 equivalent)
 - ISO : [Still Image] Auto(ISO80-3200, selectable with upper / lower limit), 80/100/200/400/800/1600/3200, Multi-Frame NR: Auto(ISO80-3200 same as selected range in Auto), 100/200/400/800/1600/3200/6400 *3 /12800 *3
 - Noise Reduction : Long exposure NR High ISO NR: Normal / Low Multi Frame NR: Auto, ISO100-12800
 - Creative Style : Standard, Vivid, Portrait, Landscape, Sunset, Black & White, Sepia
 - ISO Sensitivity (Movie) : [Movie] Auto (ISO80-3200, selectable with upper / lower limit), 80/100/200/400/800/1600/3200
 - White Balance Mode : Auto / Daylight / Shade / Cloudy / Incandescent / Fluor.: Cool White / Fluor.: Day White / Fluor.: Daylight / Flash / Custom / One Push, One Push Set
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- Flash Modes : Auto / Flash On / Slow Synchro / Flash Off / Rear Sync.
- Flash Coverage : ISO Auto: Approx. 0.3m to 5.4m (11 13/16 inches to 17 ft 8 19/32 inches) (W) / Approx. 2.5m to 3.0 m (8 ft 2 27/64 inches to 9 ft 10 7/64 inches) (T)

Focus Control

- AF Illuminator : Auto / Off
- Focus Area : Wide / Center / Flexible Spot (S/M/L) / Expanded Flexible Spot
- AF Modes : Single-shot AF, Continuous AF (Advanced sports & Movie Only), DMF, Manual Focus

Imaging Sensor

- Processor : BIONZ® X
- Pixel Gross : 21.1MP
- Color Filter System : RGB primary color mosaic filters
- Effective Picture Resolution : 18.2MP
- Imaging Sensor : 1/2.3" (7.82mm) Exmor R® CMOS sensor

Interface

- NFC : Yes (NFC forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
- HD Output : Multi / Micro USB Terminal Hi-Speed USB (USB2.0) Micro HDMI
- Wi-Fi : Yes (IEEE802.11b/g/n (2.4GHz band))

LCD Display

- LCD Type : 3.0" (7.5 cm) (4:3) / 921,600 dots / Xtra Fine / TFT LCD
- Angle Adjustment : Up by approx. 180 degrees
- Histogram : Yes (On / Off)
- Brightness Control : Manual (5 steps)

Optics/Lens

- Digital Zoom : Still Image: 18M Approx.120x / 10M Approx. 161x / 5.0M Approx. 226x / VGA Approx. 459x / 13M (16:9) Approx.120x / 2.1M (16:9) Approx. 306x Movie: Approx. 120x
- Optical Zoom : 30x (Optical Zoom during movie recording)
- Macro Mode : Yes (Auto)
- Minimum Focus Distance : iAuto: AF (W: Approx. 5cm (0.16 ft.) to Infinity, T: Approx. 250cm (8.20 ft.) to Infinity) / Program Auto: AF (W: Approx. 5cm (0.16 ft.) to Infinity, T: Approx. 250cm (8.20 ft.) to Infinity)
- Lens Groups-Elements : 11 elements in 10 groups (including 5 aspheric elements)
- Lens Type : ZEISS Vario-Sonnar T* Lens
- Aperture (Max.) : F3.5 (W) - 6.4 (T)
- Steady Shot Mode:Active : Yes
- Clear Image Zoom : Still Image:18M Approx. 60x / 10M Approx. 80x / 5.0M Approx. 113x / VGA Approx. 459x / 13M (16:9) Approx. 60x / 2.1M (16:9) Approx.153x Movie: Approx. 60x
- Aperture : iAuto (F3.5-F6.3(W)) / Program Auto(F3.5-F6.3(W)) / Manual (F3.5-F8.0(W)) / Aperture Priority(F3.5-F8.0(W)) / Sutter Priority(F3.5-F6.3(W))
- Focal Length (35mm equivalent) : [Still Image 3:2] f=25-750mm, [Still Image 4:3] f=24-720mm, [Still Image 16:9] f=26.5-795mm, [Still Image 1:1] f=27.5-825mm [Movie 16:9] f=26.5-795mm (SteadyShot Standard), f=28-1180mm (SteadyShot Active), f=31-1210mm (SteadyShot IntelligentActive), [Movie 4:3] f=32.5-975mm (SteadyShot Standard), f=34.5-1450mm (SteadyShot Active), 38-1480mm (SteadyShot IntelligentActive)
- Aperture Blade : Iris diaphragm (5 blades)

Power

- Power Requirements : AC 100V to 240V, 50/60 Hz, 70mA
- Battery Type : NP-BX1
- Power Consumption (in Operation) : Approx. 1.4W with LCD monitor and approx. 1.5W with viewfinder (CIPA standard)
- Power Consumption (in View Finder Operation) : Still Images: Monitor: Approx. 390 / Approx. 195min.; ViewFinder: Approx. 360 / Approx. 180min. Movie (Actual shooting): Monitor: Approx. 70min.; ViewFinder: Approx. 75min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4GB.) Movie (Continuous shooting):

Monitor: Approx. 105min.; ViewFinder: Approx. 115min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4GB.)

Recording

- Panorama Still Image Size : Sweep Panorama: Wide (7,152 x 1,080/4,912 x 1,920) Standard: (4,912 x 1,080/3,424 x 1,920), 360 (11,520 x 1,080)
- Microphone/Speaker : Stereo / mono
- Still Image Size 1:1 : 1:1 mode: 13M (3,664 x 3,664) / 7.5M (2,736 x 2,736) / 3.7M (1,920 x 1,920)
- Audio Format : XAVC S: LPCM 2ch AVCHD: Dolby Digital (AC-3) 2ch (Dolby Digital Stereo Creator) MP4: MPEG-4 AAC-LC 2ch
- Video Format : XAVC S / AVCHD format Ver.2.0 compatible / MP4
- Video Mode : AVCHD: 28M PS (1,920 x 1,080/60p) 24M FX (1,920 x 1,080/60i) 17M FH (1,920 x 1,080/60i) 24M FX (1,920 x 1,080/24p) 17M FH (1,920 x 1,080/24p) XAVC S: 60p 50M (1,920 x 1,080/60p) 30p 50M (1,920 x 1,080/30p) 24p 50M (1,920 x 1,080/24p) MP4: 28M (1,920 x 1,080/60fps) 16M (1,920 x 1,080/30fps) 6M (1,280 x 720/30fps)
- Color Space : sRGB
- Still Image Size 16:9 : 16:9 mode: 13M (4,896 x 2,752) / 7.5M (3,648 x 2,056) / 2.1M (1,920 x 1,080)
- Still Image Size 3:2 : 3:2 mode: 16M (4,896 x 3,264) / 8.9M (3,648 x 2,432) / 4.5M (2,592 x 1,728),
- Still Image File Format : JPEG (DCF Ver.2.0, Exif Ver.2.3, MRF Baseline complians)
- Media Type : Memory Stick Duo; Memory Stick PRO Duo; Memory Stick PRO Duo(High Speed); Memory Stick PROHG Duo; Memory Stick Micro; Memory Stick Micro (Mark2); SD Memory Card; SDHC Memory Card(UHS-I); SDXC Memory Card(UHS-I); microSD Memory Card; microSDHC Memory Card; microSDXC Memory Card
- Still Image Max Effective Resolution : Approx. 18.2 Megapixels
- Still Image Size 4:3 : 4:3 mode: 18M (4,896 x 3,672) / 10M (3,648 x 2,736) / 5M (2,592 x 1,944) / VGA
- Wind Noise Reduction : Off / On

Viewfinder

- Magnification : Approx. 0.5x with 50mm lens at infinity, -1m-1(diopter) (35mm equiv.)
- Diopter Adjustment : -4.0 to +3.0m-1

Weights and Measurements

- Dimensions (Approx.) : W x H x D: 4 1/8" x 2 3/8" x 1 7/16" (102.0 x 58.1 x 35.5mm)
- Weight (Approx.) : Approx. 8.6oz (245g) (Battery and Memory Stick DUO are included)
- Weight(Approx) (Main unit only) : Approx. 7.7oz (218g)