

Sensor

Sensor type

1.0-type (13.2 x 8.8 mm) Exmor R™ CMOS sensor

Number of Pixels (Effective)

Approx. 20.2 megapixels

Number of Pixels (Gross)

Approx. 20.9 megapixels

Lens

Lens type

ZEISS® Vario-Sonnar T* Lens, 7 elements in 6 groups (4 aspheric elements including AA lens)

F-number (Maximum Aperture)

F1.8 (W) - 4.9 (T)

Focal length

f=10.4-37.1mm

ANGLE OF VIEW (35 MM FORMAT EQUIVALENT)

75 deg–24 deg (28–100 mm²)³

Focus Range (From the Front of the Lens)

iAuto: AF (W: approx. 5cm to infinity, T: approx. 55cm to infinity), Program Auto: AF (W: approx. 5cm to infinity, T: approx. 55cm to infinity)

Optical zoom

3.6x (Optical Zoom during movie recording)

Clear Image Zoom (Still Image)

Still images: 7.2x*1

Digital Zoom (Still Image)

Up to 54x (VGA)

Aperture Type

Iris diaphragm (7 blades)

Digital Zoom

Still images: 20M approx. 14x, 10M approx. 20x, 5M approx. 28x, VGA approx. 54x,
Movie: 14x*1

Focal Length (f=) 35mm format equivalent

Still images 3:2 : f=28-100mm, Still images 4:3 : f=30-108mm, Still images 16:9 : f=29-105mm, Still images 1:1 : f=36-127mm, Movie 16:9 : f=29-105mm (SteadyShot Standard), f=33-120mm (SteadyShot Active), Movie 4:3 : f=36-128mm (SteadyShot Standard), f=41-146mm (SteadyShot Active)

LCD

Screen type

7.5 cm (3.0 type)(4:3) / 1,228,800 dots / Xtra Fine / TFT LCD

Brightness Control

Auto / Manual (5 steps) / Sunny Weather

Viewfinder

Viewfinder

Camera

Image Processing Engine

BIONZ™

STEADYSHOT (STILL IMAGE)

Still images: Optical, Movie: Active Mode, Optical type with electronic compensation (Anti Rolling type)

Focus Mode

Single-shot AF, Continuous AF, Direct Manual Focus (DMF), Manual Focus

Focus Area

Multi Point AF, Center Weighted AF, Flexible Spot AF, Flexible Spot AF(Tracking Focus), Flexible Spot AF(Face Tracking Focus)

Light Metering Mode

Multi Pattern, Center Weighted, Spot

Exposure Compensation

+/- 3.0 EV, 1/3 EV step

ISO Sensitivity (Still Image)(Recommended Exposure Index)

Auto (ISO125-6400, selectable with upper/lower limit),
125/200/400/800/1600/3200/6400 (Extendable to ISO80/100), Multi-Frame
NR:Auto(ISO125-25600), 200/400/800/1600/3200/6400/12800*3 /25600*3 (*2)

ISO Sensitivity (Movie)

Auto: (ISO 125 Level - ISO 3200 Level)

Minimum Illumination (Movie)

Auto: 3.2 lux (Shutter Speed 1/60 s)

White Balance Modes

Auto, Daylight, Shade, Cloudy, Incandescent, Fluor.: Warm White, Fluor.: Cool White,
Fluor.: Day White, Fluor.: Daylight, Flash, C.Temp., Filter, Custom

Shutter Speed

iAuto (4-1/2000), Program Auto (1-1/2000), Manual (30-1/2000), Shutter Priority (30-1/2000), Aperture Priority (8-1/2000)

Aperture

iAuto (F1.8/F11 (W)), Program Auto (F1.8/F11 (W)), Manual (F1.8/F11 (W)), Shutter Priority (F1.8/F11 (W)), Aperture Priority (F1.8/F11 (W))

Image Control

NR Level setting, Color Mode, Contrast, Saturation, Sharpness, Creative Style, Color Space, Quality (RAW/RAW&JPEG/Fine/Standard), Long Exposure NR, High ISO NR (Normal/High/Low)

Dynamic Range Functions

Off, Dynamic Range Optimiser (Auto/Level 1-5), Auto High Dynamic Range: Off, Auto Exposure Difference, Exposure difference level (1.0-6.0 EV, 1.0 EV step)

Shooting Mode

Superior Auto, Intelligent Auto, Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, Movie Mode, Panorama

Scene Selection

Portrait, Anti Motion Blur, Sports Action, Pet Mode, Gourmet, Macro, Landscape, Sunset, Night Scene, Handheld Twilight, Night Portrait, Fireworks, High Sensitivity

Continuous Shooting Speed (maximum) (with max. recording pixels)

Approx. 10 fps*4*5

Self-Timer

Off, 10sec., 2sec., Self-portrait, Self-timer(Cont)

Panorama (Shooting)

Sweep Panorama

Picture Effect

Still Image: Toy camera, Pop Colour, Posterisation, Retro Photo, Soft High-key, Partial Colour, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolour, Illustration

Auto Image Rotation

Yes

Number of Recognised Scenes

Still images: 33, Movie: 44

Flash Red-Eye Correction

On only

Flash

Flash Mode

Auto, Flash On, Slow Synchro, Rear Sync, Flash Off

Flash type

Sorry, this data isn't available

AF Illuminator

Auto/Off

Flash Range

ISO Auto: approx. 0.3m to 17.1m (W), approx. 0.55m to 6.3m (T)

Recording

Compatible Recording Media

Memory Stick Duo, Memory Stick PRO Duo, Memory Stick PRO Duo (High Speed), Memory Stick PRO-HG Duo, Memory Stick Micro*7, Memory Stick Micro (Mark2)*7, Memory Stick XC-HG Duo, SD Memory Card, SDHC Memory Card (UHS-I), SDXC Memory Card (UHS-I), microSD Memory Card*7, microSDHC Memory Card*7, microSDXC Memory Card*7 (*6)

Recording Format

Still images: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format), Movie: AVCHD format Ver. 2.0 compatible, MP4

Recording Format (Movie Audio)

VCHD: Dolby® Digital (AC-3) 2ch (Dolby® Digital Stereo Creator), MP4: MPEG-4 AAC-LC 2ch

Movie Recording Mode (NTSC)

AVCHD: 28M PS(1,920 x 1,080/50p)/24M FX(1,920 x 1,080/50i)/17M FH(1,920 x 1,080/50i)/MP4:12M(1,440 x 1,080/30 fps)/3M VGA(640 x 480/30 fps)

Movie Recording Mode

AVCHD: 28M PS(1920 x 1080/50p)/24M FX(1920 x 1080/50i)/17M FH(1920 x 1080/50i)/MP4:12M(1440 x 1080/30fps)/3M VGA(640 x 480/30fps)

Number of Recording Pixels (Image Size)

3:2 : 20M (5472 x 3648) / 10M (3888 x 2592) / 5M (2736 x 1824) / 4:3mode:18M (4864 x 3648) / 10M (3648 x 2736) / 5M (2592 x 1944) / VGA, 16:9 : 17M (5472 x 3080) / 7.5M (3648 x 2056) / 4.2M (2720 x 1528), 1:1 : 13M (3648 x 3648) / 6.5M (2544 x 2544) / 3.7M (1920 x 1920), Sweep Panorama : Wide (12416 x 1856/5536 x 2160)/Standard (8192 x 1856/3872 x 2160)

Interface

Input and output terminals

Micro USB Hi-Speed USB (USB 2.0) Micro HDMI

Wi-Fi® connectivity

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Power

Power Source

DC3.6V(supplied battery)/DC5.0V(supplied AC adaptor)

Battery System

Rechargeable Battery Pack NP-BX1 (supplied)

Power Consumption (Camera Mode)

Approx. 1.5W

USB Charge/USB Power Supply

Yes(supplied AC adaptor)

BATTERY LIFE(STILL IMAGES)(CIPA)

Still images*8: approx. 330 shots / approx. 165min, Movies (continuous shooting)*9: approx. 80min

Supplied Battery

Rechargeable Battery Pack NP-BX1

Others

Photo Creativity

Yes

Shooting Functions

Face Detection, Still Image Recording (during movie recording), Smile Shutter, Grid Line, Memory Recall, MF Assist, Auto Bracket, WB Bracket, Peaking, Auto Port. Framing

Playback Functions

Control for HDMI, Picture Effect(Watercolor, Illustration), 3D Viewing Mode

Operating Temperature

Approx. 0°C to 40°C (32F° to 104F°)

Playback Zoom

Depends on Image Size

Print

Print

Exif Print, PRINT Image Matching (PIM3)

Size & Weight

DIMENSIONS (W X H X D) (APPROX.)

Approx. 101.6 x 58.1 x 35.9mm

WEIGHT (CIPA COMPLIANT)

Approx. 213 g (Body Only), Approx. 240 g (with battery and Memory Stick Duo™)