

<b>Sensor</b>	
Sensor Type	35 mm full frame (35.9 x 24.0 mm), Exmor R <sup>®</sup> CMOS sensor, aspect ratio 3:2
Number of Pixels (Effective)	Approx. 42.4 MP
Number of Pixels (total)	Approx. 43.6 MP
Number of Pixels (Gross)	Approx. 43.6 MP
<b>Lens</b>	
Lens type	ZEISS <sup>®</sup> Sonnar T*, 8 elements in 7 groups (3 aspherical elements including AA lens)
F-number (Maximum Aperture)	F2
Focal length (f=)	f=35 mm: [Still image 3:2] f=35 mm, [Still image 16:9] f=37 mm, [Still image 1:1] f=44 mm, [Still image 4:3] f=38 mm, [Movie 16:9] f=44 mm (SteadyShot On), f=37 mm (SteadyShot Off)
Focus Range (From the Front of the Lens)	Approx. 24 cm to infinity (Normal mode), approx. 14 cm to 29 cm (Macro mode)
Clear Image Zoom (Still Image)	[Still Image] 2x, [Movie] 2x
Digital Zoom (Still Image)	Up to 8x
Filter Diameter	49 mm
Max. Magnification (Standard/Macro)	0.15x/0.26x (By Macro Switching Ring)
Optical Variable Low-Pass Filter	Yes
Aperture Type	Iris diaphragm (9 blades)
Digital Zoom	[Still Image] 42M approx. 4x/18M approx. 6.2x/11M approx. 8x, [Movie] Approx. 4x
Focus Range (From the Focal Plane)	Approx. 30 cm to infinity (Normal mode), approx. 20 cm to 35 cm (Macro mode)
<b>Screen</b>	
Screen Type	2.95" (3.0 type) (4:3) / 1,228,800 dots / Xtra Fine / TFT LCD
Brightness Control	Auto/Manual (5 steps)/Sunny Weather mode
Adjustable Angle	Up approx. 109 degrees, down approx. 41 degrees, at max.
Display Selector (Finder/Lcd)	Auto / EVF / Monitor
MS Assist Magnification	5.0x, 12.5x

<b>Viewfinder</b>	
Screen Type/Number of Dots	0.39-type electronic viewfinder (OLED), 2,359,296 dots
Field Coverage	100%
Magnification	Approx. 0.74x (with 50 mm lens equiv. at infinity, -1m-1)
Eye Point	Approx. 19 mm from the eyepiece lens, 18.4 mm from the eyepiece frame at -1m-1 (CIPA standard)
Diopter Adjustment	-4.0 to +3.0m-1
Viewfinder	0.39-type electronic viewfinder (OLED)
Brightness Control	Auto, Manual (5 steps)
<b>Camera</b>	
Image Processing Engine	BIONZ X™
Steadyshot	Electronic type (for movies)
Focus Mode	Single-shot AF (AF-S) / Continuous AF (AF-C) / Direct Manual Focus (DMF) / Manual Focus
Focus Area	Wide (399 points for phase-detection AF/25 points for contrast-detection AF) / Center / Flexible Spot (S/M/L) / Expand Flexible Spot / Lock-on AF (Wide / Center / Flexible Spot [S/M/L] / Expand Flexible Spot)
Light Metering Mode	Multi Pattern / Center-Weighted / Spot
Exposure Compensation	+/-5.0 EV (in 1/3 EV steps), with exposure compensation dial: +/-3.0 EV (in 1/3 EV steps)
ISO Sensitivity (Still Image)(Recommended Exposure Index)	ISO 100-25600 (1/3 EV step) (expandable to ISO 50/64/80/32000/40000/51200/64000/80000/102400), AUTO (ISO 100-102400, selectable upper/lower limit), Multi-Frame NR: ISO 100-102400 (1 EV step), AUTO (ISO 100-102400, selectable upper/lower limit) <sup>10</sup>
ISO Sensitivity (Movie)	ISO 100-25600
White Balance Modes	Auto / Daylight / Shade / Cloudy / Incandescent / Fluor.: Warm White / Fluor.: Cool White / Fluor.: Day White / Fluor.: Daylight / Flash / C.Temp. / Filter / Custom
WB Micro Adjustment	Yes (G7 to M7 [57 steps], A7 to B7 [29 steps])
Shutter Speed	Program Auto (30"-1/4000* s) / Aperture Priority (30"-1/4000* s) / Shutter Priority (30"-1/4000* s) / Manual Exposure (Bulb, 30"-1/4000* s) / iAuto (4"-1/4000* s) *At F5.6 or greater aperture value. Fastest limit at F2 is 1/2000 s
Aperture	F2-22
Image Control	Contrast, Saturation, Sharpness, Creative Style, Color Space (sRGB/Adobe® RGB), Quality (RAW/RAW & JPEG/Extra fine/Fine/Standard)

Uncompressed RAW	Yes
Noise Reduction	Long exposure NR: On/Off, available of shutter speeds longer than 1 s, High ISO NR: Normal / Low / Off, Multi Frame NR: Auto / ISO 100-102400
Dynamic Range Functions	Off, Dynamic Range Optimizer (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	AUTO (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 Selection	Portrait, Sports Action, Landscape, Sunset, Night Scene, Handheld Twilight, Night Portrait, Anti-Motion Blur
Continuous Shooting Speed (maximum) (with max. recording pixels)	Speed priority continuous shooting: approx. 5fps, Continuous shooting: approx. 2.5fps (AF-S) <sup>11, 12</sup>
Self-Timer	10 s/5 s/2 s/3 or 5 consecutive shots with 10 s, 5 s, or 2 s delay selectable/Bracketing shots with 10 s, 5 s, or 2 s delay selectable
Drive Modes	Single, Continuous shooting, Speed priority continuous shooting, Self-timer, Self-timer (cont.), Cont.-bracketing <sup>13</sup> , Single-bracketing <sup>13</sup> , White balance bracketing <sup>13</sup> , DRO bracketing <sup>13</sup> , LPF bracketing <sup>13</sup>
Picture Effect	[Still Image] Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration, [Movie] Toy camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black & White, Sepia, Style Box
Auto Image Rotation	Yes
Focus Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)
Metering Type	1200-zone evaluative metering
Number of Recognized Scenes	[Still Image] Superior Auto: 44, Intelligent Auto: 33, [Movie] 33
Raw Output	14 bit
Minimum Illumination	Auto:1.5 lux (Shutter Speed 1/30")
Built-in Flash Red-Eye Correction	On / Off
<b>Flash</b>	

Flash Mode	Flash Off / Autoflash / Fill-flash / Slow Sync. / Rear Sync. / Wireless (with optional compliant flash)
AF Illuminator	Auto / Off
<b>Recording</b>	
Compatible Recording Media	Memory Stick Duo, Memory Stick PRO Duo™, Memory Stick PRO Duo™ (High Speed), Memory Stick PRO-HG Duo™, Memory Stick Micro™ <sup>14</sup> , Memory Stick Micro™ (Mark 2) <sup>14</sup> , SD Memory Card, SDHC Memory Card, SDXC Memory Card, microSD Memory Card <sup>14</sup> , microSDHC Memory Card <sup>14</sup> , microSDXC Memory Card <sup>14, 15</sup>
Recording Format	[Still Image]: JPEG (DCF Ver.2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format), [Movie]: XAVC S, AVCHD format Ver. 2.0 compatible, MP4
Recording Format (Movie Audio)	XAVC S: LPCM 2ch/AVCHD: Dolby® Digital (AC-3) 2ch (Dolby® Digital Stereo Creator)/MP4: MPEG-4 AAC-LC 2ch
Color Space (Still)	sRGB, Adobe® RGB
Still Image Number of recorded pixels (Image Size)	[3:2] L: 42M (7,952 x 5,304) / M: 18M (5,168 x 3,448) / S: 11M (3,984 x 2,656), [4:3] L: 38M (7,072 x 5,304) / M: 16M (4,592 x 3,448) / S: 9.4M (3,536 x 2,656), [16:9] L: 36M (7,952 x 4,472) / M: 15M (5,168 x 2,912) / S: 8.9M (3,984 x 2,240), [1:1] L: 28M (5,296 x 5,296) / M: 12M (3,440 x 3,440) / S: 7.1M (2,656 x 2,656), [Sweep Panorama] Standard (3,872 x 2,160/8,192 x 1,856) / Wide (5,536 x 2,160/12,416 x 1,856)
Movie Recording Mode (NTSC)	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 HD: 60p 50M (1,920 x 1,080/60p) / 30p 50M (1,920 x 1,080/30p) / 24p 50M (1,920 x 1,080/24p) / 120p 50M (1,280 x 720/120p), MP4: 28M (1,920 x 1,080/60p)/16M (1,920 x 1,080/30p)/6M (1,280 x 720/30p)
Movie Recording Mode (PAL)	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) / 24M FX (1,920 x 1,080/25p) / 17M FH (1,920 x 1,080/25p), XAVC S HD: 50p 50M (1,920 x 1,080/50p) / 25p 50M (1,920 x 1,080/25p) / 100p 50M (1,280 x 720/100p), MP4: 28M (1,920 x 1,080/50p) / 16M (1,920 x 1,080/25p) / 6M (1,280 x 720/25p)
<b>Interface</b>	
Input and Output Terminals	Multi/Micro USB Terminal <sup>16</sup> , Micro HDMI, Microphone (1/8" Stereo minijack), Multi Interface Shoe
NFC	NFC forum Type 3 Tag compatible One-touch remote One-touch sharing
WI-FI	Yes (IEEE802.11b/g/n [2.4 GHz band])

Wireless Capabilities	Wi-Fi® NFC forum Type 3 Tag compatible One-touch remote One-touch sharing Eye-Fi
<b>Power</b>	
Power Source	DC3.6 V (supplied battery) / DC5.0 V (supplied AC Adapter)
Battery System	Rechargeable Battery Pack NP-BX1
Power Consumption (Camera Mode)	Approx. 2.5W with LCD monitor and approx. 2.7W with viewfinder (CIPA standard)
USB Charge/USB Power Supply	Yes (supplied AC adapter)
Battery Life(Still Images)	[Still Images] <sup>17</sup> : Monitor: Approx. 220 shots / Approx. 110 min., Viewfinder: Approx. 200 shots / Approx. 100 min., [Movies (actual shooting)] <sup>18, 19</sup> : Monitor: Approx. 30 min., Viewfinder: Approx. 30 min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4 GB.), [Movies (continuous shooting)] <sup>18</sup> : Monitor: Approx. 50 min., Viewfinder: Approx. 50 min. (In [MP4 28M] mode, max. continuous shooting time is approx. 20 min. and max. file size is 4 GB.) <sup>20</sup>
Supplied Battery	Rechargeable battery pack NP-BX1
<b>Others</b>	
PlayMemories Camera Apps	Yes
Shooting Functions	Smart Teleconverter (approx. 1.4x/2x) / Eye AF / Lock-on AF / Face Detection / Face Registration / Smile shutter / Grid Line / Quick Navi / Digital Level Gauge (pitch and roll) / Exposure Bracketing / White Balance Bracketing / DRO Bracketing / Flash Bracketing / LPF bracketing / MF Assist / Peaking / Zebra / Marker Display / Photographer Name & Copyright / ISO Auto Minimum Shutter Speed / PC Remote Control / Auto Object Framing
Playback Functions	BRAVIA® Sync (Control for HDMI) / Single (with or without shooting information, RGB histogram & highlight/shadow warning) / 9/25-frame index view / Enlarged display mode / Auto Orientation / Slideshow / Panorama scrolling / Auto Review (10 s/5 s/2 s/off) / Forward / Rewind (Movie) / Delete / Protect / 4K still image playback
Operating Temperature	Approx. 0 °C to 40 °C (32 °F to 104 °F)
Index Playback	9 / 25 images
Playback Zoom	Depends on Image Size
<b>Print</b>	

Print	Exif Print, PRINT Image Matching (PIM3)
<b>Size &amp; Weight</b>	
Dimensions (W x H x D)	4.46 x 2.57 x 2.83 in
WEIGHT (CIPA COMPLIANT)	1 lb 0.9 oz (480 g)/1 lb 1.9 oz (507g) (With battery and Memory Stick PRO Duo™)