

## Press Release

### **Sony's New $\alpha$ 7R II Delivers Innovative Imaging Experience with World's First Back-Illuminated 35mm Full-Frame Sensor<sup>1</sup>**

*Flagship full-frame mirrorless camera  $\alpha$ 7R II features 42.4MP back-illuminated CMOS sensor, in-camera 5-axis image stabilisation, internal 4K video recording, silent shooting, fast hybrid AF and more*



*$\alpha$ 7R II*

**Hong Kong, June 30, 2015** – Sony, a worldwide leader in digital imaging and the world's largest image sensor manufacturer, today introduced the new flagship full-frame mirrorless camera  $\alpha$ 7R II. The new  $\alpha$ 7R II features the world's first back-illuminated full-frame Exmor R™ CMOS sensor<sup>1</sup>, which realises high-resolution (approximately 42.4 effective megapixels), high-sensitivity (expandable up to ISO102400)<sup>2</sup> and high-speed AF response up to 40 per cent faster than the original  $\alpha$ 7R, thanks to 399 focal plane phase detection AF points.

The interchangeable lens camera  $\alpha$ 7R II also includes a 5-axis image stabilisation system borrowed from the acclaimed  $\alpha$ 7 II model, and has the ability to shoot and record 4K videos in multiple formats including Super 35mm (without pixel binning) and full-frame format, a world's first for digital cameras<sup>1</sup>. Additionally, it has a newly refined XGA OLED Tru-Finder™ with the world's highest (0.78x) viewfinder magnification<sup>3</sup>.

#### **High-Resolution, High-Sensitivity and High-Speed Response**

The newly-developed 42.4-megapixel back-illuminated CMOS sensor is the most advanced, versatile and highest-resolution full-frame image sensor that Sony has ever created, allowing the  $\alpha$ 7R II to reach new levels of quality, sensitivity and response speed. In the past, many photographers have

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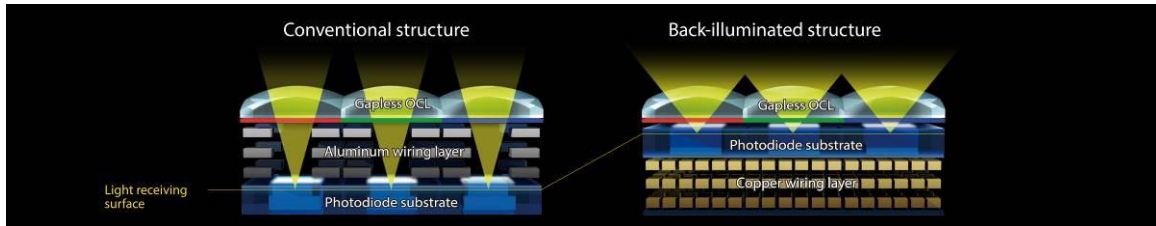
<sup>1</sup> Among 35mm full-frame interchangeable-lens camera, according to a Sony research as of June 2015.

<sup>2</sup> Expanded ISO range available only for shooting still images.

<sup>3</sup> Among digital still cameras. The viewfinder magnification is approx. 0.78x (with 50mm lens at infinity,  $-1m^{-1}$ ). As of June 2015 based on a Sony research.

been forced to choose between high-resolution and high-speed or high-resolution and high-sensitivity when selecting a camera. The new  $\alpha 7R$  II eliminates that sacrifice thanks to its innovative image sensor.

The 42.4-megapixel sensor combines gapless on-chip lens design and AR (anti-reflective) coating on the surface of the sensor's glass seal to dramatically improve light collection efficiency, resulting in high-sensitivity with low-noise performance and wide dynamic range. This allows the camera to shoot at an impressive ISO range of 100 to 25600 that is expandable to ISO50 to 102400<sup>2</sup>.



*Back-illuminated CMOS structure*

Furthermore, the sensor's back-illuminated structure, with an expanded circuit scale and copper wiring design, enables faster transmission speed and ensures content can be captured in high-resolution without sacrificing sensitivity. Data can also be output from the sensor at approximately 3.5x faster compared to the original  $\alpha 7R$ .

An ideal match to Sony's extensive collection of FE lenses (35mm full-frame compatible E-mount lenses), the new  $\alpha 7R$  II features a high-speed BIONZ X image processing engine that allows images and videos from the camera to be captured with supreme details and low noise. There is also no optical low pass filter on the camera, ensuring that scenery and landscapes are captured in the highest possible resolution and clarity.

The new image sensor features 399 focal-plane phase-detection AF points – the world's widest AF coverage on a full-frame sensor<sup>1</sup> – that work together with 25 contrast AF points to achieve a focus response speed that is approximately 40 per cent faster than the original model. The  $\alpha 7R$  II utilises an advanced motion-detection algorithm combined with this Fast Hybrid AF system to achieve up to 5fps continuous shooting with AF tracking. The phase-detection AF is also applicable to video recording.

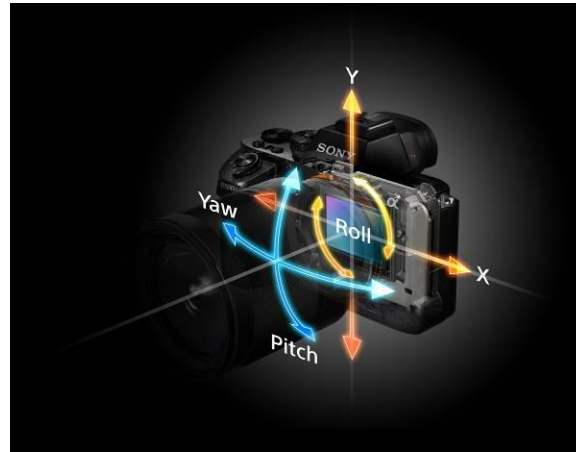
The  $\alpha 7R$  II has a new highly-durable reduced-vibration shutter that realises 50 per cent less vibration from shutter movements compared to its predecessor, and has a cycle durability of approximately 500,000 shots<sup>4</sup>. The camera can also be set to Silent Shooting mode in order to shoot images quietly without any sensor vibration or movement.

The focal plane phase-detection AF system on the  $\alpha 7R$  II also works well with Sony's A-mount lenses when they are mounted on the camera using an LA-EA3 or LA-EA1 mount adapter. This

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<sup>4</sup> According to a Sony internal testing, with the electronic front curtain shutter activated.

allows users to enjoy the wide AF coverage of 399 focal plane phase-detection AF points, high-speed response and high-tracking performance with a wider range of lenses. This marks the first time that the AF system of a mirrorless camera can achieve high performance with lenses originally designed for DSLRs.



*5-axis image stabilisation system*

### **5-Axis Image Stabilisation Optimised for 42.4-Megapixels**

The new flagship  $\alpha 7R$  II model is equipped with an innovative 5-axis image stabilisation system that has been fine-tuned to support its high-resolution shooting capacity. Similar to the system launched on the acclaimed  $\alpha 7$  II model, this advanced form of image stabilisation corrects camera shake along five axes during shooting, including angular shake (pitch and yaw) that tends to occur with a telephoto lens, shift shake (X and Y axes) which becomes noticeable as magnification increases, and rotational shake (roll) that often affects video recording. This camera shake compensation system is equivalent to shooting at a shutter speed approximately 4.5 steps faster<sup>5</sup>.

Additionally, the 5-axis stabilisation works cooperatively with Sony's  $\alpha$  lenses with optical SteadyShot™ (OSS) to provide maximum stabilisation and clarity, while also performing admirably via a compatible mount adapter with Sony  $\alpha$  A-mount lenses<sup>6</sup> without on-board stabilisation. Effects of the stabilisation can be previewed via live-view mode on the LCD or OLED viewfinder of the camera.

### **Unrivalled 4K Movie-Shooting Performance**

The impressive video credentials of Sony's new  $\alpha 7R$  II camera include the ability to record movies in 4K quality (QFHD 3840x2160) in either Super 35mm crop mode or full-frame mode.

In Super 35mm mode, the camera collects a wealth of information from approximately 1.8x as many pixels as 4K by using full pixel readout without pixel binning and oversamples the information to produce 4K movies with minimal moire and 'jaggies'. In full-frame mode, the  $\alpha 7R$  II uses the full

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<sup>5</sup> Based on CIPA standards. Compensates for angular shake (pitch and yaw). Measured using a Sonnar T\* FE 55mm F1.8 ZA lens, with long exposure noise reduction off.

<sup>6</sup> Some lenses are not compatible with 5-axis image stabilisation.

width of the 35mm sensor for 4K recording, allowing users to maximise the expanded expressive power of the sensor. It is the world's first digital camera to offer this in-camera full-frame format 4K recording capacity<sup>1</sup>.

The camera utilises the advanced XAVC S<sup>7</sup> codec during video shooting, which records at a high bit rate of 100Mbps during 4K recording and 50Mbps during full HD shooting. The  $\alpha$ 7R II model also features a variety of functions to support a professional video workflow including Picture Profile, S-Log2 Gamma and S-Gamut, 120fps high frame rate movie shooting in HD (720p), time code, clean HDMI output and many more.

### **Enhanced Design, Operability and Reliability**

The new full-frame  $\alpha$ 7R II has an upgraded XGA OLED Tru-Finder™ with a double-sided aspherical lens that delivers the world's highest viewfinder magnification<sup>3</sup> of 0.78x for crystal clear image preview and playback across the entire display area. ZEISS® T\* Coating is also available to reduce unwanted reflections that interfere with the shooting experience.

The camera has an extremely solid, professional feel in-hand thanks to its light, rigid magnesium alloy design, and has an improved and re-designed grip and shutter button compared to its predecessor. There is also a new mechanism to conveniently lock the mode dial, and an expanded range of customisable functions and buttons to suit the most demanding photographers.

The new  $\alpha$ 7R II camera is Wi-Fi and NFC-compatible, and is fully functional with Sony's PlayMemories Mobile™ application available for Android™ and iOS platforms, as well as Sony's growing range of PlayMemories Camera Apps™, which add a range of creative capabilities to the camera. For example, there is more creativity available now for time-lapse photography thanks to a new "Angle Shift add-on" app that allows users to easily add pan, tilt and zoom to time-lapse images without any additional shooting equipment or PC software required. More information can be found here: [www.sony.net/pmca](http://www.sony.net/pmca).

Sony has also introduced a new compact 5.0 type Full HD (1920x1080p) LCD monitor, CLM-FHD5, ideal companion to the  $\alpha$ 7R II for video shooting. It features enlarging and peaking functionality for precise focusing, false colour and video level marker for adjusting exposure and S-Log display to assist S-Log shooting.



*CLM-FHD5*

The  $\alpha$ 7R II is compatible with Sony's growing lineup of  $\alpha$  mount lenses, which now totals 63 different models including 12 native FE full frame lenses. By early 2016, Sony will add eight new lenses to its FE full frame lineup, bringing the FE total to 20 lenses and the overall  $\alpha$  mount assortment to 70 different models.

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<sup>7</sup> An SDXC memory card with a Class 10 or higher speed rating is required for XAVC S recording, while UHS Speed Class 3 is required for recording at 100Mbps.

The Sony  $\alpha$ 7R II full-frame interchangeable lens camera will be available from end of July 2015 onwards at HK\$23,490.

### **Order Now**

From July 3 to July 19, 2015, the  $\alpha$ 7R II is available for preordering at all Sony Stores, Sony Store online ([www.sony.com.hk/store](http://www.sony.com.hk/store)) and Sony sales hotline at (852) 2345-2966 as well as authorized dealers. Customers will receive a Sony 64GB SD card SF-64UZ (worth HK\$1,179) and a camera case LCS-SC8 free of charge. The following  $\alpha$ 7R II special offer packages will be available during the preorder period:

<b>Packages</b>	<b>Special Pre-order Package Prices</b>
$\alpha$ 7R II + SEL2470Z Lens	HK\$30,980 (Original price \$32,880)
$\alpha$ 7R II + SEL55F18Z Lens	HK\$29,780 (Original price \$31,480)
$\alpha$ 7R II + SEL1635Z、SEL2470Z & SEL70200 Lenses	HK\$49,360 (Original price \$55,060)

A variety of exclusive stories and exciting new content shot with the flagship  $\alpha$ 7R II camera and other Sony  $\alpha$  products can be found at [www.sony.com/alpha](http://www.sony.com/alpha), Sony's new community site built to educate, inspire and showcase all fans and customers of the Sony  $\alpha$  brand.

The new content will also be posted directly at Sony global sites <https://www.youtube.com/c/ImagingbySony> and [https://www.sony.net/Product/di\\_photo\\_gallery](https://www.sony.net/Product/di_photo_gallery).

For customer enquiries, please contact Sony hotline service at (852) 2345-2966.

### **About Hong Kong Marketing Company**

Hong Kong Marketing Company (HKMC), a division of Sony Corporation of Hong Kong Limited, provides sales, marketing and after sales services for Sony's consumer electronics products as well as broadcast and professional products in Hong Kong and Macau. For more information on Sony's products and services, please visit our website at <http://www.sony.com.hk>.

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## Specifications of Sony full-frame interchangeable-lens digital camera $\alpha$ 7R II:

Model	$\alpha$ 7R II
<b>General</b>	
Camera type	Interchangeable-lens digital camera
Lens mount	E-mount
<b>Image sensor</b>	
Type	35mm full frame (35.9 x 24.0mm), <i>Exmor R</i> CMOS sensor
Number of pixels (effective)	Approx. 42.4 megapixels
Number of pixels (total)	Approx. 43.6 megapixels
Image sensor aspect ratio	3:2
Anti-dust system	Charge protection coating on optical filter and image sensor shift mechanism
<b>Recording system (still image)</b>	
Recording format	JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Image size (pixels)	<p><b>3:2 aspect ratio</b></p> <p><b>35mm full frame</b>  L: 7952 x 5304 (42M)  M: 5168 x 3448 (18M),  S: 3984 x 2656 (11M)</p> <p><b>APS-C</b>  L: 5168 x 3448 (18M),  M: 3984 x 2656 (11M),  S: 2592 x 1728 (4.5M)</p> <p><b>16:9 aspect ratio</b></p> <p><b>35mm full frame</b>  L: 7952 x 4472 (36M),  M: 5168 x 2912 (15M),  S: 3984 x 2240 (8.9M)</p> <p><b>APS-C</b>  L: 5168 x 2912 (15M),  M: 3984 x 2240 (8.9M),  S: 2592 x 1456 (3.8M)</p> <p><b>Sweep Panorama</b>  Wide: Horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M),  Standard: Horizontal 8192 x 1856 (15M), vertical 3872 x 2160 (8.4M)</p>
Image quality modes	RAW, RAW & JPEG, JPEG Extra fine , JPEG Fine, JPEG Standard
RAW output	14 bit
Picture Effect	13 modes : Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R,G,B,Y), High Contrast Monochrome, Toy Camera Soft High-key, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature, Watercolor, Illustration
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black & White, Sepia (Contrast -

	3 to +3 steps, Saturation -3 to +3 steps, Sharpness -3 to +3 steps) (Style Box 1-6 also provided)
Dynamic range functions	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range: Auto Exposure Difference, Exposure Difference Level (1.0-6.0 EV, 1.0 EV step)
Color space	sRGB standard(with sYCC gamut), Adobe RGB standard compatible with TRILUMINOS™ Color
<b>Recording system (movie)</b>	
Recording format	XAVC S/ AVCHD format Ver 2.0 compliant/ MP4
Video compression	XAVC S:MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264, MP4: MPEG-4 AVC/H.264
Audio recording format	XAVC S:LPCM, 2ch AVCHD: Dolby Digital (AC-3), 2ch, Dolby Digital Stereo Creator MP4: MPEG-4 AAC-LC, 2ch
Image size (pixels)	<b>NTSC:</b> XAVC S 4K: 3840 x 2160 (30p/100Mbps, 30p/60Mbps, 24p/100Mbps, 24p/60Mbps) XAVC S HD: 1920 x 1080 (60p/50Mbps, 30p/50Mbps, 24p/50Mbps), 1280 x 720 (120p/50Mbps) AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH) MP4: 1920 x 1080 (60p/28Mbps, 30p/16Mbps), 1280 x 720 (30p/6Mbps) <b>PAL:</b> XAVC S 4K: 3840 x 2160 (25p/100Mbps, 25p/60Mbps) XAVC S HD: 1920 x 1080 (50p/50Mbps, 25p/50Mbps), 1280 x 720 (100p/50Mbps) AVCHD: 1920 x 1080 (50p/28Mbps/PS, 50i/24Mbps/FX, 50i/17Mbps/FH, 25p/24Mbps/FX, 25p/17Mbps/FH) MP4: 1920 x 1080 (50p/28Mbps, 25p/16Mbps), 1280 x 720 (25p/6Mbps)
Picture Profile	Yes (Off / PP1-PP7) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
Movie functions	Audio Level Display, Audio Rec Level, AF Tracking Sensitivity, AF Drive Speed, Auto Slow Shutter, HDMI info. Display (On/Off selectable), Time Code/User Bit, Picture Profile, Creative Style, Picture Effect, Rec Control, Dual Video Rec, Marker Setting, PAL/NTSC Selector
Color space	xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS™ Color
<b>Clean HDMI output</b>	
	<b>NTSC :</b> 3840 x 2160 (30p/24p) / 1920 x 1080 (60p/24p) / 1920 x 1080

	(60i), YCbCr 4:2:2 8bit/ RGB 8bit <b>PAL:</b> 3840 x 2160 (25p) / 1920 x 1080 (50p) / 1920 x 1080 (50i), YCbCr 4:2:2 8bit/ RGB 8bit
<b>Media</b>	
Media	<i>Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I compliant), microSD memory card, microSDHC memory card, microSDXC memory card</i>
Slot	<i>Multi slot for Memory Stick Duo / SD memory card</i>
<b>Noise reduction</b>	
Noise reduction	Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low/ Off selectable
Multi Frame NR	Auto/ISO 100 to 102400
<b>White balance</b>	
Modes	Auto WB / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White / Daylight) / Flash / Color Temperature (2500 to 9900K) & Color Filter (G7 to M7: 57 steps, A7 to B7: 29 steps) / Custom / Underwater
AWB micro adjustment	G7 to M7 (57 steps), A7 to B7 (29 steps)
Bracketing	3 frames, H/L selectable
<b>Focus system</b>	
Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)
Focus point	<b>35mm full frame:</b> 399 points (phase-detection AF) <b>APS-C:</b> 357 points (phase-detection AF) / 25 points (contrast-detection AF)
Sensitivity range	EV -2 to EV 20 (at ISO 100 equivalent with F2.0 lens attached)
AF modes	Automatic AF (AF-A), 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) / Zone / Expand Flexible Spot / Lock-on AF (Wide / Zone / Center / Flexible Spot (S/M/L) / Expand Flexible Spot)
Other features	Lock-on AF, Eye AF, Predictive control, Focus lock; Eye-start AF and AF micro adjustment (both only available with optional LA-EA2 or LA-EA4 attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF ON
<b>Exposure control</b>	
Metering type	1200-zone evaluative metering
Metering sensor	<i>Exmor R CMOS sensor</i>
Metering sensitivity	'EV -3 to EV 20 (at ISO 100 equivalent with F2.0 lens attached)
Metering modes	Multi-segment, Center-weighted, Spot
Exposure modes	AUTO (iAUTO, Superior Auto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Scene Selection, Sweep

	Panorama, Movie
Scene Selection	Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night Scene, Hand-held Twilight, Anti Motion Blur
Exposure compensation	+/-5.0 EV (in 1/3 EV or 1/2 EV steps), with exposure compensation dial: +/-3.0 EV (in 1/3 EV steps)
AE Bracketing	Bracket: Single/Bracket: Cont., 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0 or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3 or 1.0 EV increments.
AE lock	Available with AE lock button. Locked when shutter button is pressed halfway. Can be disabled from the Menu.
ISO sensitivity (Recommended Exposure Index)	<b>Still images:</b> ISO 100-25600 (expandable to ISO 50–102400 for shooting still images), AUTO (ISO 100-6400, selectable lower limit and upper limit) <b>Movies:</b> ISO 100-25600 equivalent, AUTO (ISO 100-6400 equivalent, selectable lower limit and upper limit)
<b>Viewfinder</b>	
Type	XGA OLED, 1.3cm (0.5 type) electronic viewfinder (color)
Number of dots (total)	2,359,296 dots
Brightness control	Auto/Manual (5 steps between -2 and +2)
Color temperature control	Manual (5 steps)
Field coverage	100%
Magnification	Approx. 0.78x (with 50mm lens at infinity, -1m <sup>-1</sup> )
Diopter adjustment	-4.0 to +3.0m <sup>-1</sup>
Eye point	Approx. 23mm from the eyepiece lens, 18.5mm from the eyepiece frame at -1m <sup>-1</sup> (CIPA standard)
Display	Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge
Real-time image-adjustment display	On/Off
<b>LCD screen</b>	
Type	7.5cm (3.0 type) TFT drive
Total number of dots	1,228,800 dots
Brightness control	Manual (5 steps between -2 and +2), Sunny Weather mode
Adjustable angle	Up approx. 107 degrees, down approx. 41 degrees
Display selector (Finder/LCD)	Auto/Manual
Display	Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge / Shooting information for viewfinder mode
Real-time image-adjustment display	On/Off
Zebra	Yes
Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
<b>Other features</b>	
Face Detection	On / On (Regist. Faces) / Off, Face registration, Face selection (Max. number of detectable faces: 8)

Auto Object Framing	Yes
Clear Image Zoom	Still / Movie: Approx. 2x
Digital zoom	<b>Smart zoom (still images):</b> M: Approx. 1.5x, S: Approx. 2.0x <b>Digital zoom (still images):</b> Approx. 4x <b>Digital zoom (movies):</b> Approx. 4x
PlayMemories Camera Apps	Yes
Lens compensation	Peripheral shading, chromatic aberration, distortion
<b>Shutter</b>	
Type	Electronically controlled, vertical-traverse, focal-plane type
Shutter speed	Still Images: 1/8000 to 30 sec., Bulb, Movies: 1/8000 to 1/4 (1/3 step). NTSC: Up to 1/60 in AUTO mode (up to 1/30 in Auto Slow Shutter mode) PAL: Up to 1/50 in AUTO mode (up to 1/25 in Auto Slow Shutter mode)
Flash sync. speed	1/250 sec
Electronic front curtain shutter	Yes, On/Off
Silent Shooting	Yes, On/Off
<b>SteadyShot INSIDE (image stabilization)</b>	
Type	Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)
Compensation effect	4.5 steps (based on CIPA standard. Pitch/yaw shake only. With Sonnar T* FE 55mm F1.8 ZA lens mounted. Long exposure NR off.)
<b>Flash Control (with optional external flash)</b>	
Control	Pre-flash TTL
Flash compensation	+/-3.0 EV (switchable between 1/3 and 1/2 EV steps)
Flash bracketing	3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, 1.0 EV increments.
Flash modes	Flash off, Autoflash, Fill-flash, Slow Sync., Rear Sync. Red-eye reduction (On/Off selectable), Hi-speed sync <sup>*1</sup> , Wireless <sup>*1</sup>
External flash	Sony $\alpha$ System Flash compatible with Multi Interface Shoe. Attach the shoe adaptor for flash compatible with Auto-lock Accessory Shoe.
FE level lock	Yes
<b>Drive</b>	
Drive modes	Single shooting, Continuous shooting, Self-timer, Self-timer (Cont.), Bracketing (Cont., Single, White Balance, DRO)
Self-timer	10 sec. delay/5 sec. delay/2 sec. delay/Continuous self-timer (3 frames after 10 sec. delay/5 frames after 10 sec. delay/3 frames after 5 sec. delay/5 frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer (Off/2 sec. delay/5 sec.

	delay/10 sec. delay
Speed (approx., max.) <sup>*2</sup>	Continuous shooting: Hi: max. 5 fps, Lo: max. 2.5 fps
No. of recordable frames <sup>*2</sup> (approx.)	Continuous shooting Hi : 24 frames (JPEG Extra Fine L), 30 frames (JPEG Fine L), 37 frames (JPEG Standard L), 23 frames (RAW), 22 frames (RAW & JPEG)
<b>Playback</b>	
Modes	Single (with or without shooting information, Y RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (Maximum magnification L: 24.9x, M: 16.2x, S: 9.4x), Auto Review (10/5/2 sec, off), Image orientation (Auto/Manual/Off selectable), Slideshow, Panorama scrolling, Folder selection (Still / Date / MP4 / AVCHD / XAVC S HD / XAVC S 4K), Forward/Rewind (Movie), Delete, Protect
<b>Interface</b>	
PC interface	Mass-storage, MTP, PC remote
Multi / Micro USB Terminal	Yes <sup>*3</sup>
Wireless LAN (built-in)	Wi-Fi Compatible, IEEE802.11b/g/n (2.4GHz band) <sup>*4</sup> Playback of still images and movies on smartphones, PCs and TVs
NFC™	Yes(NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
HD output	HDMI micro connector (Type-D), BRAVIA Sync (link menu), PhotoTV HD, 4K movie output, 4K still image playback
Multi Interface Shoe	Yes
Others	Auto-lock Accessory Shoe compatible with supplied shoe adaptor, Microphone terminal (3.5mm Stereo minijack), Headphone terminal (3.5mm Stereo minijack), Vertical Grip Connector
<b>Audio</b>	
Microphone	Built-in stereo microphone or ECM-XYST1M / XLR-K2M (sold separately)
Speaker	Built-in monaural
<b>Print</b>	
Compatible standards	Exif Print, Print Image Matching III, DPOF setting
<b>Custom function</b>	
Type	Custom key settings, Programmable setting
Memory function	Yes (2 sets)
<b>Power</b>	
Battery	Rechargeable Battery Pack NP-FW50
Still images	Approx. 290 shots (viewfinder) / approx. 340 shots (LCD screen) (CIPA standard)
Movies	Actual <sup>*5*6</sup> : Approx. 50 min. with viewfinder, approx. 55 min. with LCD screen (CIPA standard) Continuous <sup>*5*7</sup> : Approx. 95 min. with viewfinder, approx. 95 min. with LCD screen (CIPA standard)
External power	AC Adaptor AC-PW20 (optional)
<b>Weight</b>	

With battery and <i>Memory Stick PRO Duo</i>	Approx. 625g (approx. 1 lb 6.0 oz.)
Body only	Approx. 582g (approx. 1 lb 4.5 oz.)
<b>Dimensions</b>	
W x H x D (excluding protrusions)	Approx. 126.9 x 95.7 x 60.3mm (approx. 5 x 3 7/8 x 2 3/8 in.)
<b>Operating temperature</b>	
Range	32-104° F/0-40° C

*Features and specifications are subject to change without notice.*

### **Remarks**

- \*1 With compatible external flash.
- \*2 Approximate. May vary depending on shooting conditions and media.
- \*3 Supports Micro USB compatible device.
- \*4 Configuration method/Access method: WPS or manually/infrastructure mode. When connecting to smartphones, the camera can always work as a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK)
- \*5 Continuous movie recording is possible for approximately 29 minutes (limited by product specifications).
- \*6 Indicated recording time is defined by repeating the following cycle: Power on, start recording, zoom, stand-by and power off.
- \*7 Indicated recording time is defined by repeating the following cycle: Pressing the MOVIE button. No other operations such as zoom are performed.