

# SONY

## Press Release

### Sony Introduces the $\alpha$ 7 II, the World's First Full-Frame Camera with Optical 5-Axis Image Stabilisation



*$\alpha$ 7 II (ILCE-7M2) with SEL2470Z*

**Hong Kong, December 3, 2014** – Sony today announced the  $\alpha$ 7 II (ILCE-7M2), the world's first<sup>1</sup> camera with optical 5-axis image stabilisation designed for a full-frame image sensor, and the latest addition to the  $\alpha$ 7 series of interchangeable-lens series.

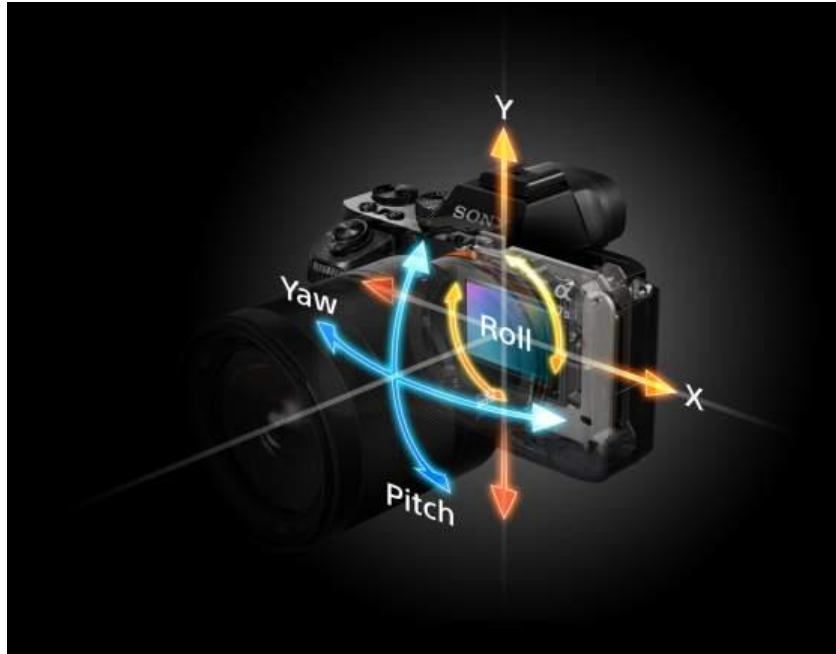
The camera offers outstanding image quality in a compact size and light body, and it carries on the traditions of the  $\alpha$ 7 series, which includes the world's smallest and lightest interchangeable-lens full-frame camera ( $\alpha$ 7R). A 24.3 effective megapixel 35 mm full-frame Exmor® CMOS sensor moves along five axes to compensate for camera shake, providing optical image stabilisation equivalent to up to 4.5 steps faster shutter speed of correction<sup>2</sup> for still images. Shooting sharp handheld stills and video is now possible under conditions that may have required a tripod in the past. In this and other scenarios, users can enjoy beautifully rendered images from the full-frame sensor with the convenience of image stabilisation. In-camera image stabilisation also offers sharper images for those using A-mount lenses on an optional lens adapter.

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<sup>1</sup> Among 35mm full-frame interchangeable-lens cameras, according to Sony research as of November 2014.

<sup>2</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.

## World's first<sup>1</sup> full-frame camera with optical 5-axis image stabilization



Detects and corrects various camera shake along five axes for still images and video, including angular shake (pitch and yaw) that tends to occur when shooting with a telephoto lens, shift shake (along the X and Y axes) that becomes noticeable as photographing magnification increases, and rotational shake (roll) that often affects shots at night or when recording video.

The full-frame image sensor moves to compensate for these kinds of camera shake. For still images, stabilisation is equivalent to up to 4.5 stops faster shutter speed of correction<sup>2</sup>.

### Optical 5-axis image stabilisation ideal for a variety of $\alpha^{\text{TM}}$ lenses<sup>3</sup>

Handheld low-light shooting at slower shutter speeds becomes possible, allowing for greater creativity and mobility without the need for a tripod. The camera's in-body image stabilisation is therefore effective even in combination with E-mount lenses without Optical SteadyShot (OSS). For A-mount lenses as well (using an optional mount adapter such as LA-EA4 or LA-EA3), camera shake is compensated for along five axes within the camera body. Users can thus make the most of the beautiful rendering power of various  $\alpha$  lenses with the  $\alpha 7$  II.

### Verify image stabilisation results with live view functionality

Monitor the corrected image in real-time on the camera's LCD screen or in the OLED viewfinder, thus allowing for fine-tuned framing and focusing even when using a telephoto or macro lens.

### **Speedy, accurate autofocus with Fast Hybrid AF**

Wide AF coverage with the employment of a 117-point focal plane phase-detection AF sensor (in combination with a 25-point contrast detection AF points)

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<sup>3</sup> Some lenses are not compatible with 5-axis image stabilisation.

117-point focal plane phase-detection AF sensor and 25 contrast detection AF points are placed over a wide area of the screen, making use of the superb tracking capabilities of the phase detection AF and therefore enabling clear capture of moving subjects that might otherwise evade focus.

#### 30% faster AF responsiveness<sup>4</sup>

A more advanced algorithm is used to detect the subject position, enabling optimal lens drive. In a variety of scenarios, autofocus is very responsive – 30% faster than in previous models<sup>4</sup>.

#### 1.5 times the tracking ability of previous models<sup>4</sup> with an improved motion-prediction algorithm

An improved, original Sony algorithm for the prediction of moving bodies results in a 1.5 times improvement in performance in tracking a subject and predicting its next movement. Additionally, AF and automatic exposure (AE) continue to track the subject during high-speed continuous shooting (up to 5 fps), so that a sudden movement or expression of the subject is never missed. Finally, greatly improved tracking ability and subject capture are made possible through the advances in image analysis technology with “lock-on AF”, a feature that optimises focusing on the subject in accordance with its size.

### **Superior image quality and enriched video recording functionalities with the full-frame sensor and BIONZ X image processing engine**

#### 35 mm full-frame Exmor CMOS sensor for high resolution and sensitivity, with minimal noise

The camera is equipped with a full-frame Exmor CMOS image sensor with approximately 24.3 effective megapixels. High resolution and larger pixels enhance sensitivity and reduce image noise to release the full potential of lens’ optical performance. Images are rendered beautifully and bokeh effects attainable only with full-frame sensors become possible.

#### BIONZ X image processing engine for superb detail and natural textures, less noise

Loaded with an advanced BIONZ X image processing engine, the  $\alpha$ 7 II enhances images in several ways: through “detail reproduction technology”, which recreates natural-looking textures even in the minute details of an image; “diffraction-reducing technology”, which prevents loss of detail when aperture stopped down; and “area-specific noise reduction”, which greatly reduces noise while maintaining exceptional detail and texture even under low light conditions such as night time and indoors.

#### Supports high bit rate XAVC-S recording

In addition to recording in AVCHD Ver. 2.0 Full HD (1920×1080) 60p (50p) / 60i (50i) / 24p, the camera records in XAVC-S, a consumer format derived from the professional XAVC® format<sup>5</sup>. This offers outstanding Full HD video quality at a high bit rate of 50 Mbps. Long GOP compression is used, targeting differences between frames, along with the MPEG-4 AVC/H.264 codec for video. Regarding audio recording, linear PCM is used and files are saved in the MP4 format.

#### Full-featured video recording that suits professional workflows

Picture profiles enable convenient in-camera tone adjustment. The  $\alpha$ 7 II also supports the S-Log2<sup>6</sup> gamma function, which preserves a wide dynamic range, and a wide S-Gamut mode. Other features

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<sup>4</sup> Compared to the  $\alpha$ 7. Based on Sony’s internal metrics.

<sup>5</sup> XAVC-S recording requires an SDXC memory card rated at Class 10 or higher.

<sup>6</sup> S-Log2: Original Sony gamma curve designed for HDR recording. Even under conditions when detail would otherwise be lost in highlights or shadows, images can be edited to recover detail.

include Time Code / User Bit (useful in editing), Rec Control (for synced recording with compatible external recorders), marker display / settings, and dual video recording.

## **Enhanced usability and reliability**

### Refined usability

Grip shape and height keep the camera steady even when using a large telephoto lens. The shutter button has been shifted toward the front, to a position that feels more natural. This, along with the button's increased size, helps reduce camera shake. Shooting comfort and convenience were a priority in design. Ten customisable buttons can be assigned to any of 56 functions.

The tilting display features a White Magic™ LCD screen for exceptional visibility even under bright sunlight.

### Sharp, high-contrast XGA OLED Tru-Finder™ viewfinder for accurate previewing

An XGA OLED Tru-Finder viewfinder with a 2.36 million dot equivalent resolution and high contrast, enabling faithful reproduction of setting adjustments, fine-tuned focusing using magnified display or peaking features, and bokeh effects. The viewfinder also allows for clear review of previous shots. Because the camera is fully APS-C-compatible, it displays the entire view even when APS-C lenses are used.

### Reliability that professionals can appreciate

Sturdy magnesium alloy construction of the top, front cover, and internal structures ensures that the camera is both durable and light. The robust mounting structure easily handles large telephoto lenses, heavy video lenses, and many others.

Main buttons and dials are also sealed to help keep out moisture and dust, and an interlocking double layered construction of media and port covers as well as body seams ensures greater moisture and dust resistance. Overall, the camera is designed to be used by photographers in any number of situations without having to worry about the safety of their cameras.

### Quick startup time – 40% faster<sup>4</sup>

After the camera is switched on, it is ready to shoot 40 per cent sooner than current models<sup>7</sup>.

## **Wi-Fi and NFC enabled for connectivity with mobile devices; support for PlayMemories Camera Apps<sup>8</sup> that allow the camera to evolve even further**

- Wi-Fi and NFC connectivity for mobile linking.
- Features can be expanded with PlayMemories Camera Apps  
By installing an updated Lens Compensation app (enabling the storage of lens information in Exif data, compensation of recorded video, and import/export of lens compensation values), users can manually set correction values for lens peripheral shading, chromatic aberration, and distortion.

To learn more, visit the PlayMemories Camera Apps website:

[www.playmemoriescameraapps.com/portal](http://www.playmemoriescameraapps.com/portal).

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<sup>7</sup> Compared to the α7. Based on Sony's internal metrics.

<sup>8</sup> Requires a valid Sony Entertainment Network account. Some apps require a fee. Availability of PlayMemories Camera Apps and each app varies according to country or region.

## Optional accessories

### VG-C2EM Vertical Grip for the α7 II

A vertical battery grip designed specifically for the α7 II, this grip enhances stability and camera control in vertical or horizontal shooting. It can hold two NP-FW50 rechargeable battery packs (not included) for longer battery life when shooting. It's highly reliable moisture and dust resistant construction.

### LCS-ELCB Soft Carrying Case for the α7 II

A case made for the α7 II that includes a leather body case and lens jacket. The battery pack and memory card can be removed without having to take the camera out of the case. NFC/USB are also accessible while the camera is in the case.

### FDA-EP15 Eye-piece Cup for the α7 II, α7S, α7R, α7

Soft replacement eye-piece cup designed for comfort.



## α interchangeable lens [A-mount]

### 70-300mm F4.5-5.6 G SSM II (SAL70300G2)

Telephoto zoom lens that brings subjects into sharp focus while creating the beautiful bokeh that G lenses are known for. Ideal for outdoor sports and wildlife photography as well as short-range shots from as close as 1.2 m. Also suited for portrait and tele-macro shooting such as floral photography.

- Nano AR coating minimises flare and ghosting from reflections within the lens to improve rendering performance.
- Approximately 4x faster AF tracking than the current lens model SAL70300G.
- Moisture and dust resistant design.

## Order Now

The interchangeable-lens full-frame digital camera α7 II lens kits from Sony will be available for pre-ordering from December 3 to December 8, 2014 at all Sony Stores, Sony Store online ([www.sony.com.hk](http://www.sony.com.hk)), Sony tele-sales hotline at (852) 2345-2966 and designated authorized dealers.

The α7 II lens kits and special offers are as follows:

Model	Price	Premiums
α7 II interchangeable-lens full-frame digital camera (Body only)	HK\$12,990	- Accessory kit set ACC-TRW (worth \$650) - 64GB SD memory card SF-64UY

$\alpha$ 7 II interchangeable-lens full-frame digital camera single lens kit (with SEL2870 lens)	HK\$14,990	(worth \$649) - $\alpha$ Accessory kit set <sup>9</sup>
$\alpha$ 7 II interchangeable-lens full-frame digital camera professional single lens kit (with SEL2470Z lens)	HK\$20,880	
<b>Winter promotion offers</b>		<b>Premium</b>
E-mount standard zoom lens SEL55F18Z (55mm F1.8)	Special offer \$6,990 (original price \$7,990)	Sony portable wireless server WG-C10 (worth \$519) Available while stock last
E-mount telephoto zoom G Lens™ SEL70200G (70-200mm F4)	Special offer \$9,690 (original price \$11,690)	

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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<sup>9</sup> Not for sale.

**Product specifications of Sony full frame Interchangeable-lens digital camera  $\alpha$ 7 II:**

<b>Model</b>	<b><math>\alpha</math>7 II</b>
<b>General</b>	
Camera type	Interchangeable-lens digital camera
Lens compatibility	Sony E-mount lenses
<b>Image sensor</b>	
Type	35mm full frame (35.8 x 23.9mm), Exmor™ CMOS sensor
Number of pixels (effective)	Approx. 24.3 megapixels
Number of pixels (total)	Approx. 24.7 megapixels
Image sensor aspect ratio	3:2
Anti-dust system	Charge protection coating on optical filter and image sensor shift mechanism Anti-Dust operation (auto): Cleaning Mode
<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)	3:2 aspect ratio 35mm full frame L: 6000 x 4000 (24M), M: 3936 x 2624 (10M), S: 3008 x 2000 (6.0M) APS-C L: 3936 x 2624 (10M), M: 3008 x 2000 (6.0M), S: 1968 x 1312 (2.6M) 16:9 aspect ratio 35mm full frame L: 6000 x 3376 (20M), M: 3936 x 2216 (8.7M), S: 3008 x 1688 (5.1M) APS-C L: 3936 x 2216 (8.7M), M: 3008 x 1688 (5.1M), S: 1968 x 1112 (2.2M)
	Sweep Panorama Wide: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M), Standard: horizontal 8192 x 1856 (15M), vertical 3872 x 2160 (8.4M)
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 Mono, Toy Camera (Normal/Cool/Warm/Green/Magenta),

	Soft High-key, Soft Focus(High/Mid/Low), HDR Painting(High/Mid/Low), Rich-tone Mono, Miniature(Auto/Top/Middle(H)/Bottom/Right/Middle(V)/Left), Watercolor, Illustration (High/Mid/ Low)
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)
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
Dynamic range functions	Off, Dynamic Range Optimizer (Auto/Level 1-5), Auto High Dynamic Range: Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1 EV step)
Color space	sRGB standard(with sYCC gamut), Adobe RGB standard compatible with TRILUMINOSTM Color
<b>Recording system (movie)</b>	
Recording format	AVCHD ver 2.0 compliant /MP4/ XAVC S
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)	XAVC S: 1920 x 1080(60p, 50M), 1920 x 1080(50p, 50M), 1920 x 1080(30p, 50M), 1920 x 1080(25p, 50M), 1920 x 1080(24p, 50M) Approx.50Mbps(Average bit-rate)  AVCHD: 1920 x 1080(60p, 28M, PS), 1920 x 1080(50p, 28M, PS) Approx.28Mbps(Maximum bit-rate) 1920 x 1080(60i, 24M, FX), 1920 x 1080(50i, 24M, FX), 1920 x 1080(24p, 24M, FX), 1920 x 1080(25p, 24M, FX) Approx.24Mbps(Maximum bit-rate) 1920 x 1080(60i, 17M, FH), 1920 x 1080(50i, 17M, FH) Approx.17Mbps(Average bit-rate)  MP4: 1440 x 1080 (25/30 fps/12 Mbps), VGA: 640 x 480 (25/30 fps/3 Mbps)
Picture Effect	Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera(Normal/Cool/Warm/Green/Magenta), Soft High-key
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape,

	Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box(1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
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, PAL/NTSC Selector, Dual Video REC, TC/UB: (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec), Auto Slow Shutter, REC Control, HDMI info. Display (On/Off selectable)
HDMI Output	1920 x 1080(50p), 1920 x 1080(50i), 1920 x 1080(24p), 1920 x 1080(60p), 1920 x 1080(60i), YCbCr 4:2:2 8bit / RGB 8bit
Color space	xvYCC standard (x.v.Color TM when connected via HDMI cable) compatible with TRILUMINOS™ Color
<b>Media</b>	
Media	Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, SD memory card, SDHC memory card(UHS-I compliant), SDXC memory card(UHS-I compliant)
<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 51200
<b>White balance</b>	
Modes	Auto WB, Daylight, Shade, Cloudy, Incandescent, Fluorescent, (Warm White / Cool White / Day White / Daylight) /, Flash, C. Temp 2500 to 9900K, C. Filter (G7 to M7 15-step, A7 to B7 15-step), Custom, AWB micro adjustment(G7 to M7 15 step, A7 to B7 15 step), Bracketing: 3 frames, H/L selectable
<b>Focus system</b>	
Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)
Focus sensor	"Exmor" CMOS sensor
Focus point	35mm full frame: 117 points (phase-detection AF) APS-C: 99 points (phase-detection AF)/ 25 points (contrast-detection AF)
Sensitivity range	EV -1 to EV 20 (at ISO 100 equivalent with F2.0 lens attached)
AF modes	Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual Focus
Focus area	Multi Point (117 points (phase-detection AF), 25 points(contrast-detection AF)) / Zone / Center-weighted / Flexible Spot (S/M/L)/ Lock-on AF ( Wide / Zone / Center)
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) (with FE 28-70mm F3.5-5.6

	OSS attached)
<b>Exposure control</b>	
Metering type	1200-zone evaluative metering
Metering sensor	Exmor™ CMOS sensor
Metering sensitivity	EV -1 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 (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) )
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: Cont./Bracket: Single, With 1/3 EV, 1/2 EV, 2/3 EV, 1.0 EV, 2.0 EV, 3.0 EV increments, 3/5 frames selectable
AE lock	Available with AE lock button. Locked when shutter button is presses halfway. (On/Off/Auto)
ISO sensitivity (Recommended Exposure Index)	Still images: ISO 100-25600 equivalent (1/3 EV step) (ISO numbers up from ISO 50 can be set as expanded ISO range), AUTO (ISO 100-6400, selectable lower limit and upper limit) Movies: ISO 200-25600 equivalent (1/3 EV step), AUTO (ISO 200-6400, selectable lower limit and upper limit)
<b>Viewfinder</b>	
Type	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. 0.71x (with 50mm lens at infinity, -1m-1 diopter) Diopter adjustment: -4.0 to +3.0m-1 diopter
Eye point	Approx. 27mm from the eyepiece lens, 22mm from the eyepiece frame at -1m-1 diopter (CIPA standard)
Display contents	Graphic Display, Display All Info, No Disp. Info, Histogram, Digital Level Gauge
<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
WhiteMagic	Yes
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
Quick Navi	Yes

Focus magnifier	35mm full frame: 5.9x, 11.7x, APS-C: 3.8x, 7.7x
Zebra	Yes
Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Marker Display	Center/Aspect/Safety Zone/Guideframe
Grid Line	Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off
<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	Smart zoom (still images): 35mm full frame: M:approx 1.5x, S:approx 2x APS-C: M:approx 1.3x, S:approx 2x Digital zoom (still images): 35mm full frame: L:approx 4x, M:approx 6.1x, S:approx 8x APS-C: L:approx 4x, M:approx 5.2x, S:approx 8x Digital zoom (movies): 35mm full frame: approx 4x APS-C: 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). up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)
Flash sync. speed	1/250 sec
Electronic front curtain shutter	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(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	1/3, 1/2, 2/3, 1, 2, 3 EV steps, 3/5 frames
Flash modes	Flash off, Autoflash, Fill-flash, Slow Sync., Rear Sync. Red-eye reduction (On/Off selectable), Hi-speed sync*1, Wireless*1

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>	
Modes	Single shooting, Continuous shooting (Hi/Lo selectable), Self-timer (10/2 sec. delay selectable), Self-timer (Cont.) (10 sec. delay; 3/5 exposures selectable), Bracketing (Cont., Single, White Balance, DRO)
Speed (approx., max.)*2	Continuous shooting: Hi: max. 5 fps, Lo: max. 2.5 fps
<b>Playback</b>	
Modes	Single (with or without shooting information, RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (Maximum magnification L: 18.8x, M: 12.3x, S: 9.4x), Panorama (Standard): 25.6x, Panorama (Wide): 38.8x, Auto Review (10/5/2 sec, off), Image orientation (Auto/Manual/Off selectable), Slideshow, Panorama scrolling, Folder selection (Still / Date / MP4 / AVCHD/ XAVC S), Forward/Rewind (Movie), Delete, Protect
<b>Interface</b>	
PC interface	Mass-storage, MTP, PC remote
Multi / Micro USB Terminal	Yes*3
Wi-Fi	Playback of still images and movies on smartphones, PCs and TVs
NFCTM	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 still image playback
Multi Interface Shoe	Yes
Others	Remote Control: Yes(RMT-DSLR2 (sold separately)), Microphone terminal (3.5mm Stereo minijack), Headphone terminal (3.5mm Stereo minijack), Vertical Grip Connector
Compatible OS	Windows Vista*4 SP2, Windows 7 SP1, Windows 8, Mac OS X (v. 10.6-10.8)
<b>Audio</b>	
Microphone	Built-in stereo microphone or XLR-K2M/ECM-XYST1M(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 (Body 2 sets /memory card 4 sets)
<b>Power</b>	

Battery	Rechargeable Battery Pack NP-FW50
Still images	Approx. 270 shots (viewfinder) / approx. 350 shots (LCD screen) (CIPA standard)
Movies	Actual*5*6: Approx. 60 min with viewfinder, approx. 65 min with LCD screen (CIPA standard) Continuous*5*7: Approx. 100 min with viewfinder, approx. 100 min with LCD screen (CIPA standard)
External power	AC Adaptor AC-PW20 (optional)
<b>Weight</b>	
With battery and Memory Stick PRO Duo	Approx. 599 g (approx. 1 lb 5.1 oz)
Body only	Approx. 556 g (approx. 1 lb 3.6 oz)
<b>Dimensions</b>	
W x H x D (excluding protrusions)	Approx. 126.9mm x 95.7mm x 59.7mm Approx. 5 x 3 7/8 x 2 3/8 inches
<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 Starter Edition is not supported.

\*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.