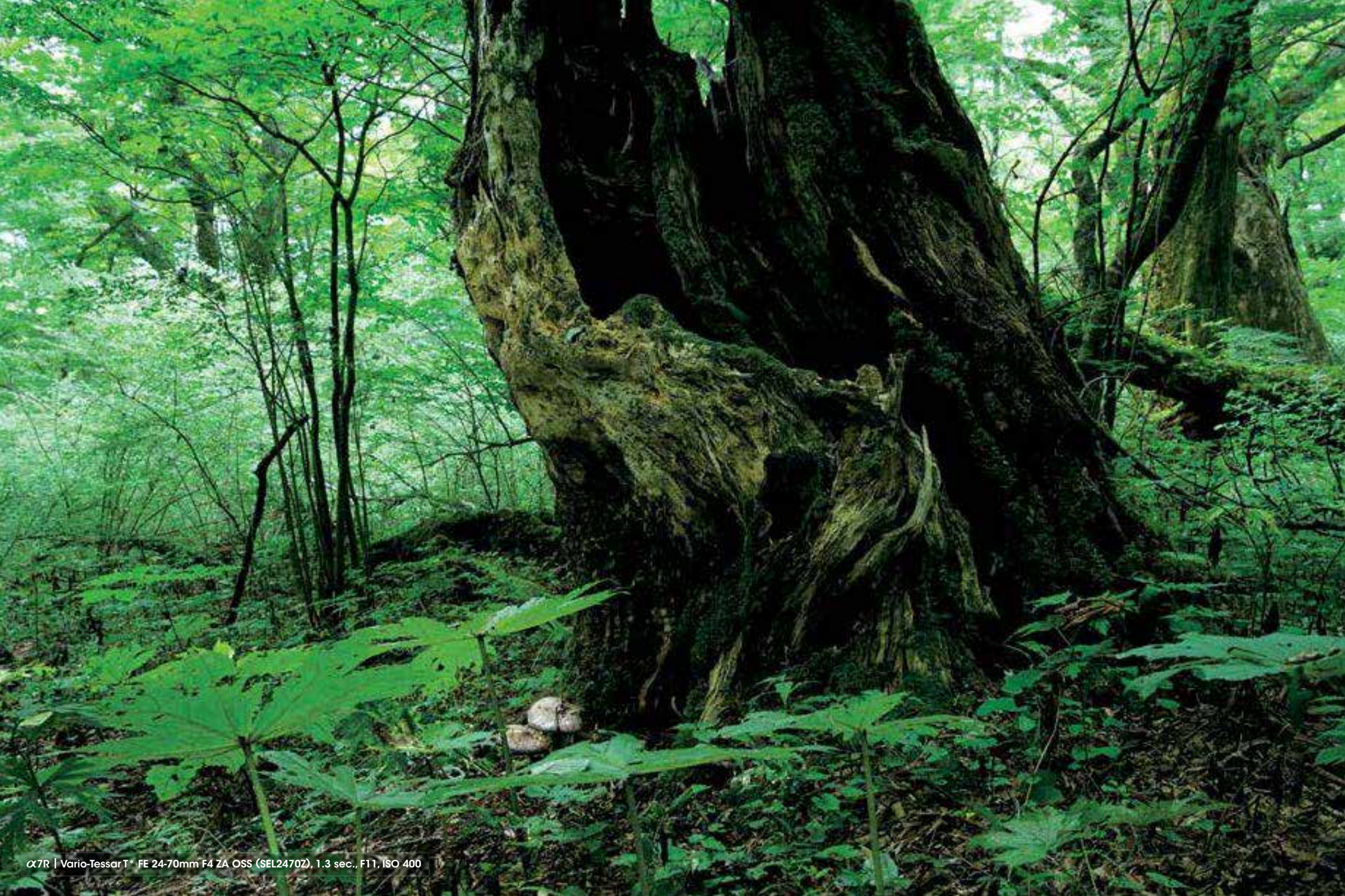


**SONY**  
make.believe



**$\alpha$ 7 /  $\alpha$ 7R**

a new frame of mind



*α7 / α7R*

## full-frame, palm sized

### The best of both worlds

Full-frame photography is transformed with the introduction of Sony *α7* and *α7R*. The unprecedented combination of revolutionary compactness and remarkably realistic image quality will delight photographers and cinematographers seeking the best of both worlds.



# $\alpha$ 7 / $\alpha$ 7R

## image quality, defined

### Sophistication made compact

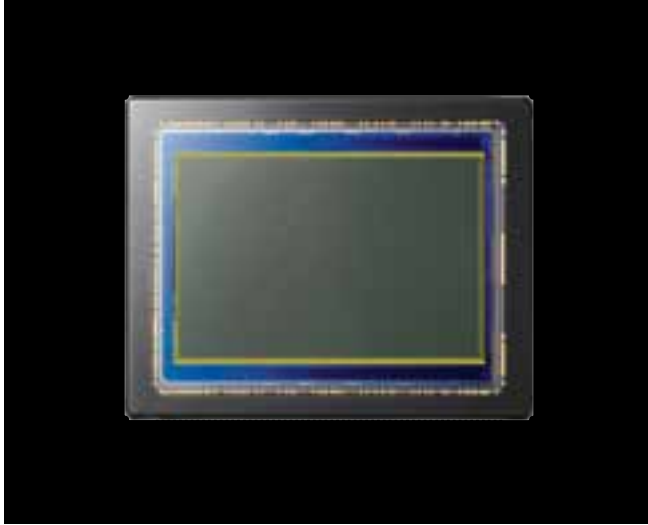
Never before has an interchangeable-lens camera this small packed the power of a 35mm full-frame sensor. The  $\alpha$ 7 and  $\alpha$ 7R liberate photographers and cinematographers by combining amazing portability with all the advantages of full-frame photography and moviemaking, including higher sensitivity shooting with lower noise, a wider dynamic range, a shallower depth of field that enables dramatic defocusing effects like bokeh and compatibility with wide-angle full-frame lenses.

Exmor™  
CMOS Sensor

BIONZ X

ZEISS

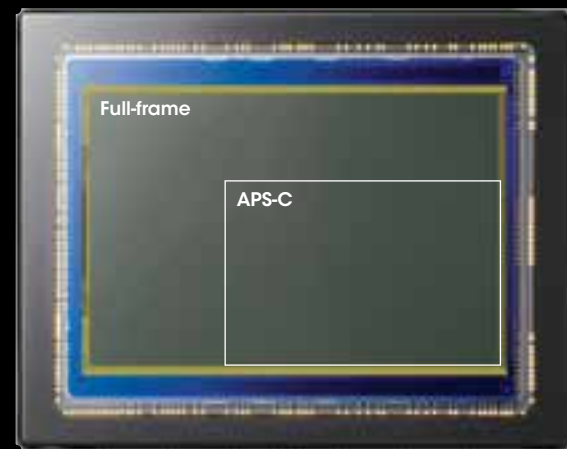
G



α7 / α7R

# breakthrough image sensor technology

Exmor™ CMOS Sensor



## Full-frame Exmor™ CMOS sensors

Sony, one of the world's leading makers of image sensors, combined its top new technologies to achieve the highest resolution and image quality in α history. This revolutionary 35mm full-frame Exmor™ CMOS image sensor collects light with record efficiency to achieve high sensitivity, a wide dynamic range and an incredible new level of realism while significantly reducing noise.

# α7



## 35mm full-frame 24.3 megapixel\* Exmor™ CMOS sensor

The 35mm full-frame Exmor CMOS image sensor delivers beautiful images from corner to corner and stunning 24.3 megapixel resolution that's ideal for large-format prints. You'll enjoy low noise, an extremely wide dynamic range and amazingly rich and subtle gradations. Moreover, innovations that could only be achieved by Sony reproduce details more faithfully so that every scene looks incredibly real.

\* Approximate effective megapixels

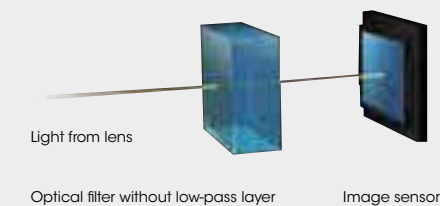
# α7R



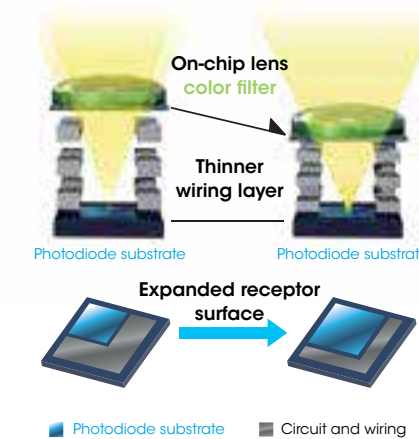
## 35mm full-frame 36.4 megapixel\* Exmor™ CMOS sensor without optical low-pass filter

The newly developed 36.4 megapixel\* 35mm full-frame Exmor CMOS sensor delivers unbelievably high resolution in combination with high sensitivity and extremely low noise. Sony removed the optical low-pass filter to bring out the full potential of the sensor and lens, thus achieving an enhanced sense of clarity with supremely realistic details to the very edges of your photos. An AR coating also reduces flare and ghosting.

### No optical low-pass filter



### Conventional design    Cutting-edge design



## Advances in sensor technology

The exceptional performance and sensitivity of the image sensor is achieved with the help of three advances in sensor design. Light concentration technology compressed the height of circuitry to dramatically increase the amount of light collected by each pixel. Photodiode expansion technology increases the size of the photodiode at every pixel to improve the sensor's dynamic range and deliver smoother, richer image gradation. On-chip column A/D conversion converts light to digital signals with utmost precision and speed on the sensor itself before image processing and combines with dual NR to produce images of exceptional quality and clarity.

### Gapless on-chip lens design



### Individually optimized on-chip lens positioning

## Gapless, optimally positioned on-chip lenses (α7R)

Sony optimized the design and positioning of every on-chip lens (OCL) covering every pixel to significantly enhance light-gathering efficiency. This raises sensitivity while maintaining low noise and achieving an impressive S/N ratio. A gapless on-chip lens design eliminates the gaps between micro-lenses to collect more light. Moreover, each on-chip lens is optimally positioned depending on its location to accommodate the sharper angle of light entering the periphery, which is caused by larger sensor dimensions being teamed with the E-mount's short flange-back distance.



Sony is the world's No. 1 manufacturer of image sensors for digital cameras and video recorders (based on Sony research from April 2012 to March 2013 that shows Sony has a 50% market share).

α7 / α7R

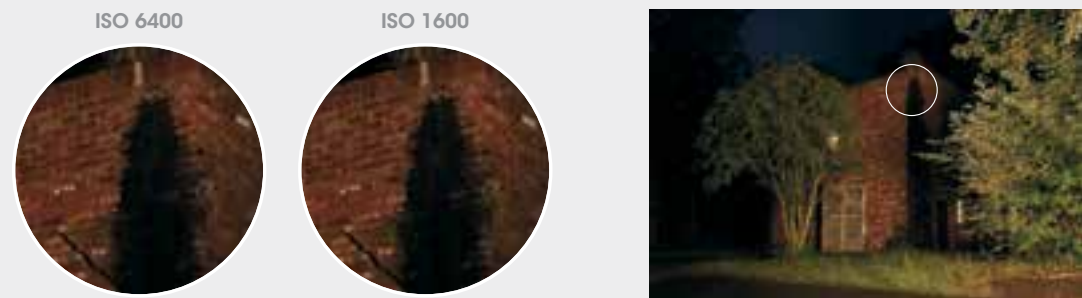
# extraordinary detail

BIONZ X



## BIONZ® X image processing engine

The new high-speed BIONZ® X image processing engine faithfully reproduces textures and details in real time, as seen by the naked eye, via extra high-speed processing capabilities. Together with front-end LSI (large scale integration) that accelerates processing in the earliest stages, it enables more natural details, more realistic images, richer tonal gradations and lower noise whether you shoot still images or movies.



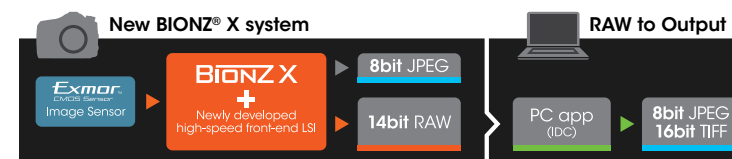
## Area-specific noise reduction

Enhanced area-specific noise reduction works together with detail reproduction technology to reproduce details with a new level of clarity, especially at high-sensitivity settings. It selectively divides the image into areas based on patterns (such as edges, textures and evenly colored areas like blue skies) then applies the most appropriate noise reduction for each area to reduce noise.



## Detail reproduction technology and diffraction-reducing technology

Detail reproduction technology depicts details more realistically with a natural sense of dimension, while diffraction-reducing technology suppresses the effects of diffraction to faithfully reproduce fine details even when shooting at small aperture settings (large F-numbers). Together, they contribute to remarkably realistic images.



## 16-bit image processing and 14-bit RAW output

16-bit image processing and 14-bit RAW output help preserve maximum detail and produce images of the highest quality with rich tonal gradations. The 14-bit RAW (Sony ARW) format ensures optimal quality for later image adjustment (via Image Data Converter or other software).

α7 / α7R

# solid reliable construction



## Robust magnesium alloy body

The remarkably compact and lightweight body is solidly built to withstand the rigors of shooting in the field. It's the ideal blend of record-breaking lightness, solid reliability and steady handling, thanks to a top cover, front cover and internal structure constructed of rigid magnesium alloy.

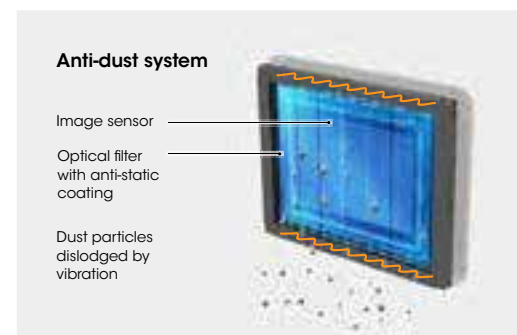


## Generous grip with easy release button

Despite the camera's compact dimensions, the grip is generously sized and contoured to provide a firm, steady grasp. After long hours of capturing images, even with a large A-mount lens, the α7 and α7R feel comfortable in your hand. Every finger falls naturally on its ergonomic contours, including a deep upper curve for the middle finger. The optimal stroke and refined craftsmanship of the shutter button also increase your tactile pleasure.

## Anti-dust system and coating

To keep your photos blemish free, an anti-dust mechanism vibrates ultrasonically whenever you switch off the camera to remove any particles adhering to the image sensor. An anti-static coating also helps prevent dust and other particles from adhering to the sensor when changing lenses.



Dust and moisture resistant mode dial structure

## Dust and moisture resistance

Carefree shooting in tough environments is yours thanks to comprehensive dust and moisture resistance measures that enhance reliability by helping to prevent water and dust from entering the body. These measures include sealing around the buttons and dials, as well as a protective double-layered structure that tightly interlocks panels and components.

# faithful OLED feedback

XGA OLED Tru-Finder



## High-contrast, high-resolution XGA OLED Tru-Finder™

View every scene clearly in the bright and accurate XGA OLED Tru-Finder, which features OLED improvements and the same 3-lens optical system used in the flagship α99 despite the compact body. The viewfinder realistically displays what will appear in your recording, including the effects of your camera settings, so you can accurately monitor the results. You'll enjoy rich tonal gradations and 3 times the contrast of the α99. High-end features like 100% frame coverage and a wide viewing angle are also provided.

Optical viewfinder bokeh



Tru-Finder bokeh



## Faithful reproduction of every scene

Since images displayed in the viewfinder come directly from the image sensor, they faithfully reproduce what will appear in your recorded images. You can therefore compose the scene and fine-tune every detail with remarkable accuracy instead of guesswork. Even bokeh is displayed with all the subtle characteristics that will appear in your final image. This is a decisive advantage over optical viewfinders, which display bokeh distorted by the focusing screen.



Graphic Display



Display All Info.



No Disp. Info.



Histogram



Digital Level Gauge

## Variable information display

The OLED viewfinder clearly displays the shooting information of your choice for quick and easy reference. You can select any of 5 display modes (Graphic Display, Display All Info., No Disp. Info., Histogram or Digital Level Gauge) by pressing the DISP button.



# swift intuitive control



Front dial



Rear dial



Control wheel



Exposure compensation dial

## Meticulously crafted controls

Controls are refined for intuitive operation and immediate adjustment of parameters while viewing scenes through the viewfinder. Shaped and placed for easy access, they contribute to a remarkably comfortable shooting experience. Despite compact dimensions, the α7 and α7R feature front and rear dials for intuitive setting of exposure, a control wheel for setting ISO and an exposure compensation dial.



## Easy button customization

Button customization empowers you to shoot just the way you like, with frequently used functions assigned to the customizable buttons of your choice. You can easily assign any of 46 functions to any of 9 buttons\* to enjoy speedier, more intuitive operation and maximum convenience.



## Intuitive Quick Navi Pro

Quick Navi Pro displays all major shooting options on the LCD screen so you can rapidly confirm settings and make adjustments as desired without searching through dedicated menus. When fleeting shooting opportunities arise, you'll be able to respond swiftly with just the right settings.



## Quick, sure operation via customizable UI

The newly developed user interface takes on many of the features of A-mount cameras to enable smoother operation and swifter progression from setting up to shooting. You can also customize various features to suit your preferences, such as assigning up to 12 of your favorite functions to the Fn button for quicker, more intuitive access.



## Liberating tiltable LCD screen

Shooting comfort is enhanced by an LCD screen that smoothly tilts to accommodate everything from low to high-angle shooting. This tilting flexibility combines with the camera's compact mobility to greatly expand your shooting options.

\* Some functions can only be assigned to certain buttons.

α7 / α7R

# speed and precision

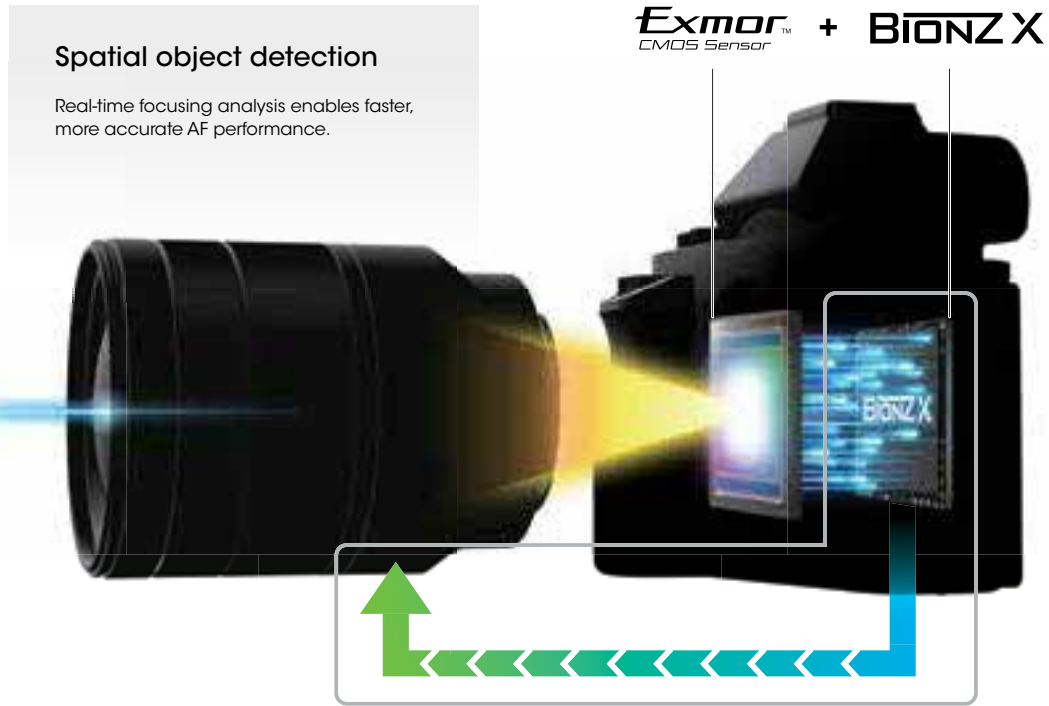
## Enhanced Fast Hybrid AF (α7)

Enhanced Fast Hybrid AF combines speedy phase-detection AF with highly accurate contrast-detection AF, which has been accelerated through a new Spatial Object Detection algorithm, to achieve among the fastest autofocusing performance of any full-frame camera. First, phase-detection AF with 117 densely placed phase-detection AF points\* swiftly and efficiently moves the lens to bring the subject nearly into focus. Then contrast-detection AF (Fast Intelligent AF) with wide AF coverage fine-tunes the focusing in the blink of an eye.

## Fast Intelligent AF (α7R)

Fast Intelligent AF provides extremely fast AF performance despite the employment of a full-frame sensor. In fact, it achieves top-level AF speed in the full-frame category through the support of various advances including new lightning-fast BIONZ® X, high-speed full-frame image sensor output and a newly developed Spatial Object Detection AF algorithm that conducts focusing analysis in real-time using spatial frequency information to optimally control the lens drive.

\* 99 points when an APS-C lens compatible with Fast Hybrid AF is mounted.



## 5 fps continuous shooting with AF tracking

When your subject is moving fast, you can capture the decisive moment with clarity and precision by shooting at speeds up to 5 frames per second. New faster, more accurate AF tracking, made possible by Fast Hybrid AF, uses powerful predictive algorithms and subject recognition technology to track every move with greater speed and precision.



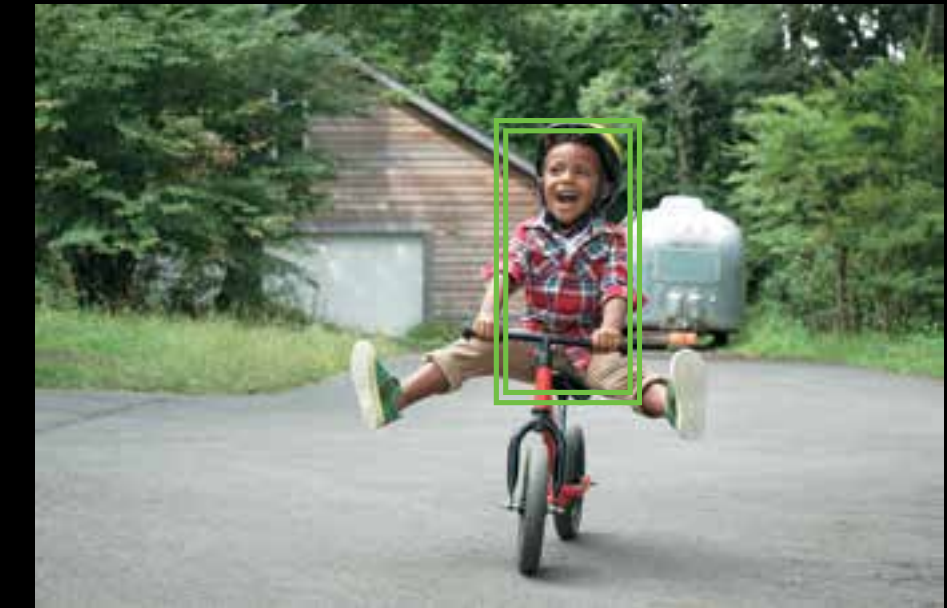
## New Eye AF

Even when capturing a subject partially turned away from the camera with a shallow depth of field, the face will be sharply focused thanks to extremely accurate eye detection that can prioritize a single pupil. A green frame appears over the prioritized eye when focus has been achieved for easy confirmation. Eye AF can be used when the function is assigned to a customizable button, allowing users to instantly activate it depending on the scene.



3 Flexible Spot size options

Zone AF



## Lock-on AF for tracking moving subjects

It's easy to keep moving subjects in focus with Lock-on AF. It adjusts target frame size based on subject characteristics and makes use of a wide AF area to ensure usage of the optimal AF point for smooth, stable autofocusing. Just press the shutter button halfway to activate it.\* New BIONZ® X ensures swifter subject tracking and detection performance than ever before.

## New AF area setting options

When using the Flexible Spot AF area setting, you can select a small, medium-sized or large AF area to match the size of your subject and help ensure the camera focuses on the intended area. Wide and Zone focus area settings are also available.

\* Shutter button activation is only available in AF-C mode.



**α7 / α7R**

# 35mm full-frame moviemaking

## Full-frame expression, no bulk

Such powerful moviemaking capabilities have never been available in a camera this small. By taking full advantage of the 35mm full-frame sensor, new BIONZ<sup>®</sup> X image processing engine, audio production features and flexible lens interchangeability, you can create movies of breathtaking visual and sound quality with exquisite background blur, remarkably clear details, and the sensitivity to bring dark scenes to vibrant life.

**AVCHD**  
Progressive

## Full HD 60p movie recording

Create movies of amazing clarity that play extra smoothly by recording them at Full HD resolution (1920 x 1080) in the AVCHD Ver. 2.0 (Progressive) format—at the extremely high frame rate of 60 fps. The **α7** and **α7R** also support 24p movie recording, which gives your movies a subtle look that movie lovers everywhere associate with the cinema.



## Simultaneous Full HD movie output via HDMI (with shooting info On/Off flexibility)

An HDMI terminal makes it easy to transfer Full HD movie signals in real-time to an external monitor for accurate, large-screen viewing and listening. This feature supports uncompressed movie recording on external recording equipment and lets you output uncompressed movies with the shooting info display function off.



## P/A/S/M manual movie modes

Manual operation frees you to realize your creative vision. By finely adjusting manual focus and P/A/S/M modes (Programmed AE, Aperture priority, Shutter-speed priority and Manual exposure), you can flexibly adjust background blur and manually control exposure to achieve exactly the look you seek.

# professional sound

## Headphone jack

Professional sound production versatility and connectivity free you to create soundtracks as professional as your images. During movie recording and playback, you can monitor the sound using headphones connected to the **α7** or the **α7R**. Stereo sound output is guaranteed to provide the highest possible playback quality via recommended Sony high-end headphones.



## Audio level display and recording level control

You can precisely control the sound level with 32-step precision using a meter displayed on the viewfinder or rear monitor. Moreover, Live (real-time) and Lip-sync settings are provided for output timing that satisfies professional needs.



## Optional XLR Adaptor Kit for professional sound production

This adaptor kit features XLR terminals, the professional standard for movie production, to enable sound recording via wide-ranging professional microphones and line-in connection for sound input. The ability to separately control left and right channel input directly from the XLR adaptor helps simplify post-shoot editing.

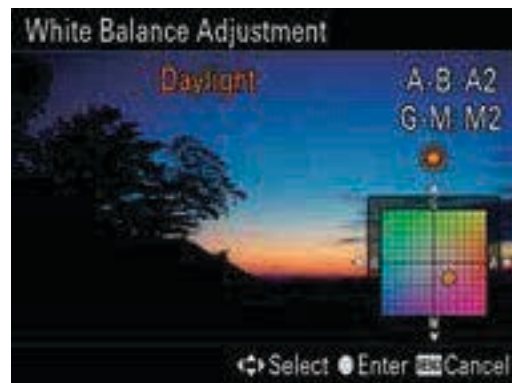
Camera shown with optional CLM-V55 monitor, XLR-K1M kit and mounting bracket.



# intuitive control

## Take control with your creativity

Get SLR-like handling with a full range of features for video and still shooting—like Multi Frame NR (Noise Reduction), Auto HDR (High Dynamic Range), Two-axis White Balance and 1200-zone evaluative metering. Advanced photographers and beginners can refine their skills, exercise greater creative control and achieve beautiful natural looking images.

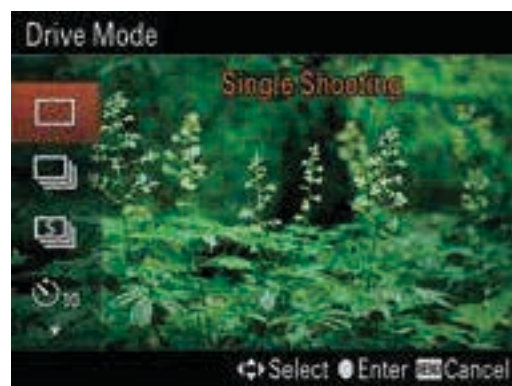


## Two-axis white balance

To achieve natural looking colors, you can use automatic white balance, a full range of white balance presets, or a Two-axis White Balance mode that lets you fine-tune white balance in the amber-blue and green-magenta directions to achieve more true-to-life color under almost any kind of light source.

## 1200-zone evaluative metering

High-precision metering by an advanced evaluative metering sensor with 1200 zones ensures balanced exposures in wide-ranging lighting conditions. The sensor reads exposure directly from the image sensor and provides a choice of Multi-segment, Center-weighted and Spot metering modes.



## Drive modes

User-friendly icons make it easy to switch between single-shot, continuous, bracketed and self-timer shooting. You can also select parameters such as self-timer shooting with a 2 or 10-second delay or bracketing with your choice of exposure, white balance or DRO.



Final composited image



Six shots composited into one image

## Multi Frame NR (Noise Reduction)

The Multi Frame NR mode is super effective at suppressing noise and lets you clearly capture dark scenes like candle-lit environments without a tripod or flash. The camera takes six shots and then composites them—with dramatically higher speed thanks to new accelerated BIONZ® X—to significantly reduce noise and achieve sensitivity equivalent to ISO 51200 when shooting at the highest ISO setting. Camera shake blur is also lowered while contrast and detail are raised.



Final composited image



Highlight details

Mid-tone details

Shadow details

## Auto HDR (High Dynamic Range)

Auto HDR expands the dynamic range of your images from darkest shadows to brightest highlights to capture all the tonal gradations seen by your naked eye. With one press, it instantly shoots three exposures and composites the best details from each in the highlights, mid-tones and shadows at new significantly higher speed to create a single image with wider dynamic range than any single exposure could possibly capture.

## INTUITIVE CONTROL



DRO on (Lv.4)



DRO off

### D-range Optimizer (DRO)

In difficult lighting, DRO analyzes and corrects your images to achieve smoother, more natural gradations with more detail in the highlights and shadows. When a backlit subject's face is dark, for example, it recovers details in the shadows to deliver a naturally bright image. You can use it during continuous shooting and when photographing moving subjects.



Clear



Landscape

### Creative Style

Creative Style settings bring out the character of your scene. Depending on your creative intentions, simply select any of 13 settings (Standard, Vivid, Neutral, Clear, Portrait, Landscape, etc.) and the camera will adjust color and other image parameters accordingly. You can also fine-tune contrast, saturation\* and sharpness to suit your preference and achieve just the right finishing touch.



### Exposure modes

Selecting an exposure mode is as simple as flicking the mode dial to your choice of clearly labeled Programmed AE, Aperture priority, Shutter-speed priority or Manual exposure mode.



Miniature



HDR Painting

### Picture Effect (13 modes)

Convert everyday scenes into works of art by applying innovative Picture Effect modes that adjust camera parameters and apply advanced image processing with real-time previews for most effects. You can choose from 13 modes, including Toy Camera, Posterization, HDR Painting, Miniature, Watercolor and Illustration.



Soft Focus



### 4K Still Image Output and TRILUMINOS™ Color

View your still images at breathtaking size and resolution on big-screen 4K-compatible TVs. Simply connect the  $\alpha 7$  or  $\alpha 7R$  with the television via HDMI cable or Wi-Fi® and it will optimize output for maximum 4K viewing enjoyment. Sony's TRILUMINOS Color also allows you to view photos and movies in rich, natural colors on any TV equipped with a TRILUMINOS Display. The expanded color gamut lets you immerse yourself once again in those unforgettably colorful moments, from the complex shades in a shimmering blue sky to the natural tones of a rosy complexion.

\* Not available when B/W or Sepia mode is selected.

α7 / α7R

# made for memories

## Connect to smartphones and tablets with one touch

You can instantly transfer a photo or MP4 movie to your Android™ smartphone or tablet by simply touching it with the α7 and α7R—thanks to built-in Wi-Fi® and NFC™ (Near Field Communication)\*. Once a photo or movie has been transferred, you can upload it directly to your favorite Social Networking Site with ease. Touching your mobile device with the camera can also activate Smart Remote Control, which is pre-installed in the camera and lets you control the camera's shutter release from your smartphone or tablet. Setting up your mobile device for these Wi-Fi/NFC capabilities is as simple as downloading a free PlayMemories Mobile app (www.sony.net/pmm).

Spark your imagination and discover new ways to enjoy your favorite photos and videos with Sony's PlayMemories suite.

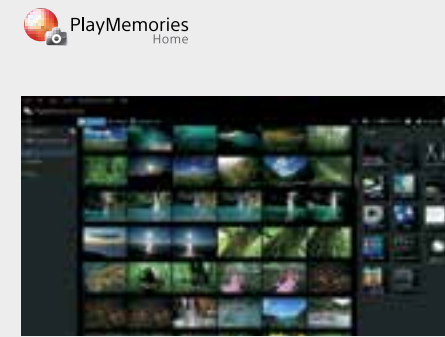


\* Requires NFC-compatible Android device.  
\*\* Requires a valid Sony Entertainment Network account. Some apps require a fee.



## PlayMemories Camera Apps™\*\*

The exciting new application download service, PlayMemories Camera Apps, lets you add new functions to your camera's existing feature-set to heighten photographic expression according to your own creative needs. Two applications are currently available for the α7 and α7R as of Oct. 16, 2013. Direct Upload uploads photos directly to networking services and Smart Remote Control allows a smartphone to control the camera. Many more apps will become available later, including Multiple Exposure, Lens Compensation, Photo Retouch and Picture Effect+.



## PlayMemories Home™

Easy-to-use image management software installs onto Windows and Mac computers. Use it to download, view, edit, print and share photos and movies.



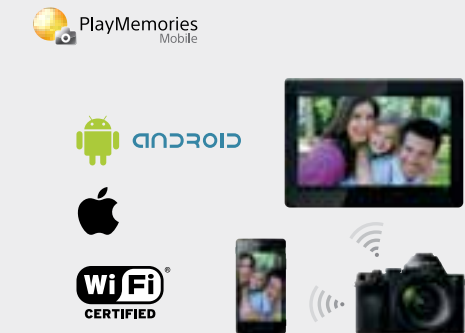
## PlayMemories Online™

A fun image sharing service for both photos and movies. Uploaded images can be viewed on multiple devices and quality photo books can easily be created from the images.



## PlayMemories Studio™

Feature-packed image management software for PS3 users. Edit and view photos and movies as well as play captivating slideshows with sound.



## PlayMemories Mobile™

Transfer photos and movies to your smartphone or tablet PC via Wi-Fi with this free application. Available for Android and iOS.



## Image Data Converter

Advanced features enable manipulation, conversion and management of full-resolution RAW images. You can expertly adjust exposure, white balance, tonal curves, saturation, contrast, hue and sharpness—as well as apply DRO and vignetting compensation. Bundled Remote Camera Control software also lets you remotely activate and deactivate still/movie recording and control various camera settings from a PC.

*α7 / α7R*

# ultimate precision and craftsmanship

## Sophistication made compact

Sony broadens your photographic horizons with an expanded lineup of full-frame lenses offering incomparable performance. The *α7* and *α7R* empower you to fully utilize the renowned depiction performance of professional full-frame A-mount lenses as well as new FE full-frame lenses in the E-mount series that are optimized for the *α7* and *α7R*.

 Carl Zeiss® lenses













 G lenses™

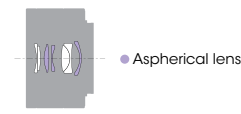


α7 / α7R

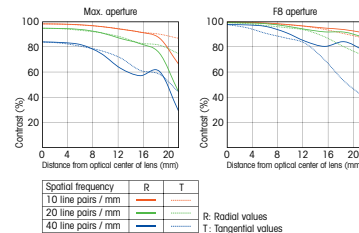
# all new full-frame FE lens lineup

FE lenses are meticulously designed to complement the α7 and α7R by bringing out their exceptional full-frame performance and matching its incomparably compact dimensions. You can count on FE lenses for uncompromising depiction performance as well as solid reliability enhanced by dust and moisture resistance.

-  Circular aperture
-  Super ED Super ED glass
-  ED ED glass
-  Advanced Aspherical lens
-  Aspherical lens
-  IF Internal focusing
-  FHB Focus hold button
-  FRL Focus range limiter
-  ADI ADI flash metering
-  SSM (Super Sonic wave Motor)
-  OSS (Optical SteadyShot)
-  Nano AR Coating Nano AR Coating

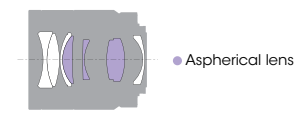


Aspherical lens  
 Lens groups/elements: 5/7  
 Minimum focus: 0.35m  
 Filter diameter: 49mm  
 Size: 61.5mm (diameter) x 36.5mm (length)  
 Weight: Approx. 120g

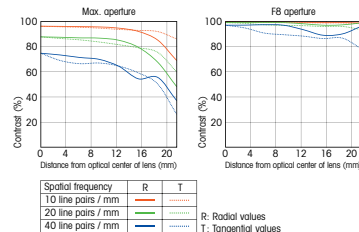


**NEW** Sonnar T\* FE 35mm F2.8 ZA (SEL35F28Z)

Ideally sized for the compact α7 and α7R body, this compact, high-performance 35mm full-frame Carl Zeiss Sonnar T\* wide-angle prime lens offers a bright F2.8 aperture worthy of the Sonnar name. Its new optical system features three aspherical lens elements that correct aberrations, realize high contrast at all aperture settings, and capture fine details even in the periphery of your images.



Aspherical lens  
 Lens groups/elements: 5/7  
 Minimum focus: 0.5m  
 Filter diameter: 49mm  
 Size: 64.4mm (diameter) x 70.5mm (length)  
 Weight: Approx. 281g



**NEW** Sonnar T\* FE 55mm F1.8 ZA (SEL55F18Z)

Featuring a large F1.8 aperture for high depiction performance, this premium 55mm standard prime lens is a great choice for the α7 and α7R. It offers the world-renowned clarity of Carl Zeiss Sonnar T\*, three aspherical lens elements that correct various aberrations and images that are clear and sharp even at wide-open settings. You'll also enjoy beautiful defocusing thanks to a 9-blade circular aperture.

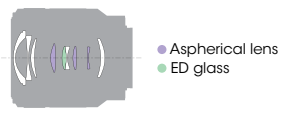


α7R | Vario-Tessar T\* FE 24-70mm F4 ZA OSS (SEL2470Z), 2.5 sec., F16, ISO 100

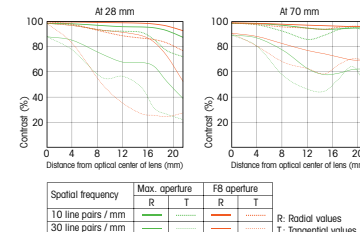


**NEW** Vario-Tessar T\* FE 24-70mm F4 ZA OSS (SEL2470Z)\*

This compact 35mm full-frame Carl Zeiss standard zoom lens offers superb performance with outstanding clarity, beautiful rendering and practical wide-open F4 aperture usage throughout the entire 24-70mm focal length range. It features aspherical and ED glass lens elements, as well as built-in Optical SteadyShot image stabilization.



Aspherical lens  
 ED glass  
 Lens groups/elements: 8/9  
 Minimum focus: 0.3m (wide) - 0.45m (tele)  
 Filter diameter: 55mm  
 Size: 72.5mm (diameter) x 83mm (length)  
 Weight: Approx. 295g



**NEW** FE 28-70mm F3.5-5.6 OSS (SEL2870)\*

Compact and lightweight, this 35mm full-frame standard zoom lens offers great value and is ideal for users stepping up to a full-frame camera. It covers the most frequently used focal length range and offers high depiction performance with reduced aberrations. It also features built-in Optical SteadyShot image stabilization and a compact size that doesn't change length during zooming.



**NEW** FE 70-200mm F4 G OSS (SEL70200G)\*

Designed for demanding photographers who settle for nothing less than the best, this premium-class telephoto zoom lens offers superb optical performance fully worthy of Sony's G moniker. Ideal for the compact α7 and α7R, it features a fixed F4 aperture and a compact, lightweight body that doesn't change length when zooming. Contributing to the outstanding performance are AA (Advanced Aspherical) and Super ED glass lens elements, a Nano AR Coating and built-in Optical SteadyShot image stabilization. Operation is also enhanced by a focus hold button and focus range limiter.



\*Available in spring 2014

α7 / α7R

# A-mount quality, no compromise

The impressive optical performance and outstanding operability of A-mount lenses are yours to enjoy on the α7 and α7R. Simply add a mount adaptor to take full advantage of everything from fixed focal length models to zoom, macro and fisheye models, including superb Carl Zeiss lenses and G Lenses favored by professional photographers.

Translucent Mirror Technology™  
Full-time Continuous AF



LA-EA4

LA-EA3

## NEW Mount Adaptors

Both of these 35mm full-frame compatible adaptors let you mount the α7 and α7R with any A-mount lens. The LA-EA4 additionally features a built-in AF motor, aperture-drive mechanism and Translucent Mirror Technology to enable continuous phase-detection AF. Both adaptors also feature a tripod hole that allows mounting on a tripod to support large A-mount lenses.

Translucent Mirror Technology™  
Full-time Continuous AF



## Highly responsive subject tracking AF assured

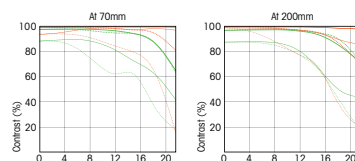
When the α7 and α7R are fitted with a mount adaptor featuring innovative Translucent Mirror Technology\*—which simultaneously and continuously transmits light from the lens to the CMOS image sensor and AF sensor—it gains the ability to mount A-mount lenses and utilize highly responsive 15-point Full-time Continuous AF, as well as instant focus lock-on and high-performance tracking even of fast-moving subjects during still-image and movie shooting.



G A-mount 35mm Full frame



Lens groups/elements: 16/19  
Minimum focus: 1.2m  
Filter diameter: 77mm  
Size: 87mm (diameter) x 196.5mm (length)  
Weight: Approx. 1,340g



Spatial frequency	Max. aperture		F8 aperture	
	R	T	R	T
10 line pairs / mm	—	—	—	—
30 line pairs / mm	—	—	—	—

R: Radial values  
T: Tangential values

## NEW 70-200mm F2.8 G SSM II (SAL70200G2)

This large-aperture telephoto zoom G Lens features a 70mm to 200mm focal length range with silky-smooth defocusing effects and a sense of added dimension. Its four ED glass elements deliver sharp and clear depiction performance comparable to prime lenses over the entire image, while a Nano AR Coating reduces flare and ghost. High-speed AF also contributes to excellent performance when tracking moving subjects.

ED Nano AR Coating IF 3 buttons Electronic FHB FRL SSM

\* The LA-EA4 mount adaptor features Translucent Mirror Technology.

A-mount  
35mm Full frame

## ZEISS Carl Zeiss lenses



Distagon T\*  
24mm F2 ZA SSM  
(SAL24F20Z)



Planar T\*  
50mm F1.4 ZA SSM  
(SAL50F14Z)



Planar T\*  
85mm F1.4 ZA  
(SAL85F14Z)



Sonnar T\*  
135mm F1.8 ZA  
(SAL135F18Z)



Vario-Sonnar T\*  
16-35mm F2.8 ZA SSM  
(SAL1635Z)



Vario-Sonnar T\*  
24-70mm F2.8 ZA SSM  
(SAL2470Z)

## G lenses



35mm  
F1.4 G  
(SAL35F14G)



300mm  
F2.8 G SSM II  
(SAL300F28G2)



500mm  
F4 G SSM  
(SAL500F40G)



70-300mm  
F4.5-5.6 G SSM  
(SAL70300G)



70-400mm  
F4-5.6 G SSM II  
(SAL70400G2)



28-75mm  
F2.8 SAM  
(SAL2875)

## Zoom lens

## Fixed focal length lenses



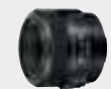
16mm  
F2.8 Fisheye  
(SAL16F28)



20mm  
F2.8  
(SAL20F28)



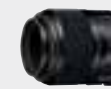
50mm  
F1.4  
(SAL50F14)



50mm  
F2.8 Macro  
(SAL50M28)



85mm  
F2.8 SAM  
(SAL85F28)



100mm  
F2.8 Macro  
(SAL100M28)



135mm  
F2.8 [T4.5] STF  
(SAL135F28)

α7 / α7R

# wide ranging APS-C lenses

All of the wide-ranging APS-C format lenses available from Sony's extensive E-mount and A-mount<sup>1</sup> lens lineups work seamlessly with the α7 and α7R. Once the lens has been mounted, the camera automatically switches to APS-C mode and displays the image over the entire viewfinder screen. So you'll enjoy usage of your current collection with the same comfort and ease as on APS-C format cameras, without any telltale signs that a smaller lens format is being used.




## Full-screen viewing on the α7 and α7R viewfinder


When an APS-C format lens is mounted on the α7 and α7R, the scene is displayed over the entire viewfinder screen.


1. Requires a mount adaptor.  
 2. Optical SteadyShot (OSS) cannot be used when mounted on the α7 and α7R.  
 3. Noise may occur at high sensitivity (ISO) settings when mounted on the α7 and α7R.


E-mount  
APS-C

### E-mount APS-C lenses

 **E 10-18mm F4 OSS**  
(SEL1018)


 **E PZ 16-50mm F3.5-5.6 OSS<sup>2,3</sup>**  
(SELP1650)


 **E 18-55mm F3.5-5.6 OSS<sup>2</sup>**  
(SEL1855)

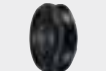
 **E PZ 18-200mm F3.5-6.3 OSS**  
(SELP18200)



 **E 18-200mm F3.5-6.3 OSS LE<sup>2</sup>**  
(SEL18200LE)



 **E 18-200mm F3.5-6.3 OSS**  
(SEL18200)


 **E 55-210mm F4.5-6.3 OSS<sup>2</sup>**  
(SEL55210)


 **E 16mm F2.8**  
(SEL16F28)


 **E 20mm F2.8**  
(SEL20F28)



 +  **Fisheye Converter**  
(VCL-ECF1)



 +  **Ultra Wide Converter**  
(VCL-ECU1)



 **E 30mm F3.5 Macro**  
(SEL30M35)

 **E 35mm F1.8 OSS**  
(SEL35F18)

 **E 50mm F1.8 OSS**  
(SEL50F18)


 **E PZ 18-105mm F4 G OSS**   
(SELP18105G)


 **Vario-Tessar T\* E 16-70mm F4 ZA OSS**   
(SEL1670Z)

 **Sonnar T\* E 24mm F1.8 ZA**   
(SEL24F18Z)


A-mount  
APS-C

### A-mount APS-C lenses


 **DT 11-18mm F4.5-5.6**  
(SAL1118)


 **DT 16-50mm F2.8 SSM**  
(SAL1650)


 **DT 16-105mm F3.5-5.6**  
(SAL16105)


 **DT 18-55mm F3.5-5.6 SAM II**  
(SAL18552)


 **DT 18-250mm F3.5-6.3**  
(SAL18250)



 **DT 55-200mm F4-5.6 SAM**  
(SAL55200-2)

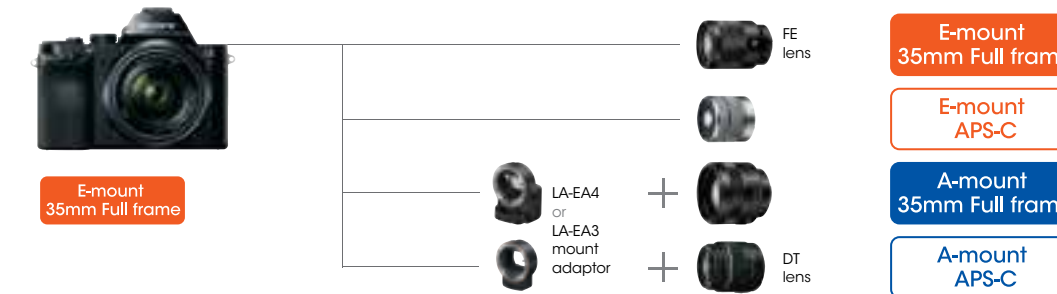
 **DT 55-300mm F4.5-5.6 SAM**  
(SAL55300)

 **DT 30mm F2.8 Macro SAM**  
(SAL30M28)

 **DT 35mm F1.8 SAM**  
(SAL35F18)

 **DT 50mm F1.8 SAM**  
(SAL50F18)

 **Vario-Sonnar T\* DT 16-80mm F3.5-4.5 ZA**   
(SAL1680Z)



α7 | Sonnar T\* FE 55mm F1.8 ZA (SEL55F18Z), 1/125 sec., F2, ISO 100

## Lens compatibility

The α7 and α7R are compatible with nearly all lenses from Sony's extensive lineups. E-mount lenses can be mounted directly on the camera, while A-mount lenses require the use of a mount adaptor. Whichever Sony lens you choose for the α7 and α7R, you can be sure of outstanding performance.



α7 / α7R

# system at a glance

Shoe Adaptor  
ADP-MAA

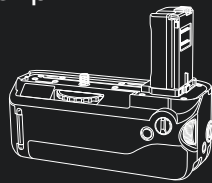
Multi Interface Shoe



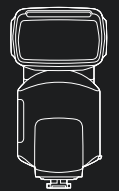
Vertical Grip

NEW

Vertical Grip  
VG-C1EM



## Flash Units / Flash Accessories



Flash  
HVL-F60M

Multi Interface Shoe



Flash  
HVL-F43M

Multi Interface Shoe



Flash  
HVL-F20M

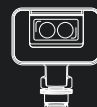
Multi Interface Shoe



NEW  
Off Camera Shoe  
FA-CS1M

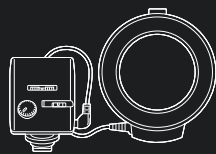
Multi Interface Shoe

## Light



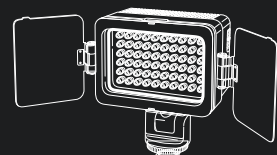
Battery Video IR Light  
HVL-LEIR1

Multi Interface Shoe



Ring Light  
HVL-RL1

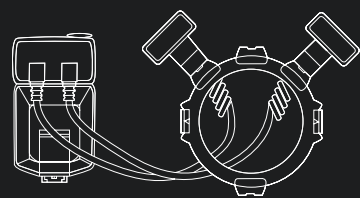
Accessory Shoe



Battery Video Light  
HVL-LE1

Accessory Shoe

## Flash Unit / Flash Accessories

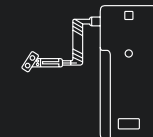


Macro Twin Flash Kit  
HVL-MT24AM

Auto-lock  
Accessory Shoe



Macro Light Adaptor  
FA-MA1AM



External Battery Adaptor  
FA-EB1AM



Triple Connector  
FA-TC1AM



Multi Flash Cable  
FA-MC1AM



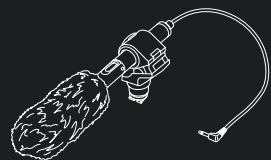
Extension Cable  
FA-EC1AM

## Microphones / Monitor



XLR Adaptor Kit  
XLR-K1M

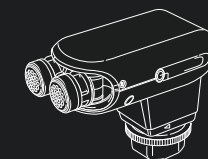
Multi Interface Shoe



Shotgun  
Microphone  
ECM-CG50

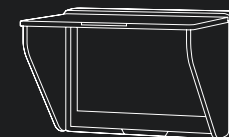
Auto-lock  
Accessory Shoe

Accessory Shoe



Stereo Microphone

Multi Interface Shoe

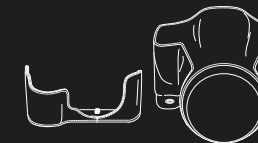


Clip-on  
LCD Monitor  
CLM-V55

Auto-lock  
Accessory Shoe

Accessory Shoe

## Cases & Straps



NEW

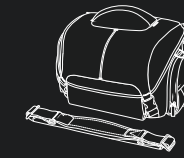
Soft Carrying Case  
LCS-ELCA



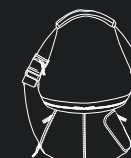
Backpack  
LCS-BP3



Soft Carrying Case  
LCS-SL20



Soft Carrying Case  
LCS-SC21



Sling Bag  
LCS-SB1

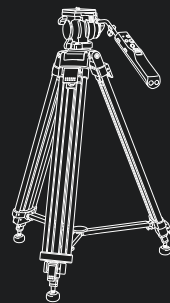


Shoulder Strap  
STP-XH1

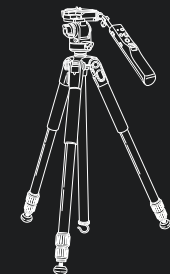


Shoulder Strap  
STP-XSG1

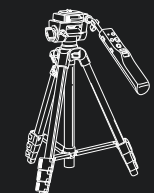
## Tripods / Remote Commander / Memory Cards / Others



Remote Control  
Tripod  
VCT-VPR100



Remote Control  
Tripod  
VCT-VPR10



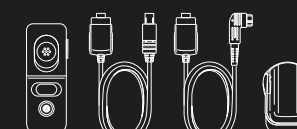
Remote Control  
Tripod  
VCT-VPR1



Multipod  
VCT-MP1



Shooting Grip With Mini Tripod  
GP-VPT1



Remote Commander  
RM-VPR1



Remote  
Commander  
RMT-DLSLR2



Headphones  
MDR-1R

NEW

Screen Protect Semi Hard Sheet  
PCK-LM16



HDMI Cable  
(Micro)  
DLC-HEU15/30



Shoe Cap  
FA-SHC1M



Memory Stick  
PRO-HG Duo HX /  
Memory Stick  
PRO Duo Mark 2

SD Memory Card

## Filters / Cases / Caps



Circular PL Filters  
VF-49CPAM / 55CPAM /  
62CPAM / 67CPAM /  
72CPAM / 77CPAM



Body Cap  
ALC-B1EM



MC Protectors  
VF-49MPAM / 55MPAM /  
62MPAM / 67MPAM /  
72MPAM / 77MPAM



Rear Lens Cap  
ALC-R1EM



NEW

Lens Case  
LCS-BBL



NEW

Lens Case  
LCS-BBM

## Power Accessories



Rechargeable Battery Pack  
NP-FW50

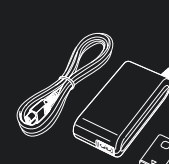


NEW

Battery Charger  
BC-TRW



Battery Charger  
BC-QM1



AC Adaptor  
AC-PW20

## Mount Adaptors



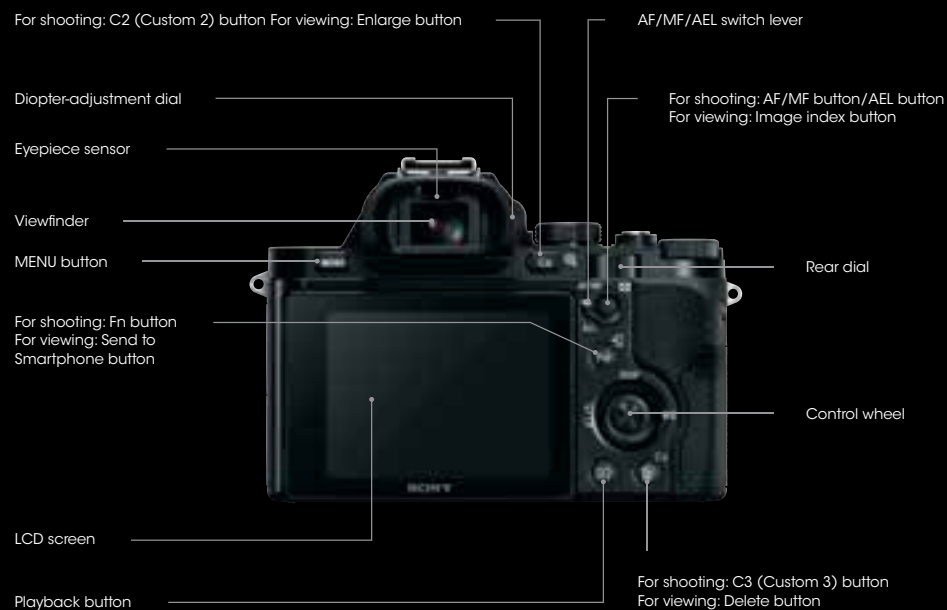
NEW

Mount Adaptor  
LA-EA4



NEW

Mount Adaptor  
LA-EA3



SPECIFICATIONS

<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)	α7: Approx. 24.3 megapixels   α7R: Approx. 36.4 megapixels
Number of pixels (total)	α7: Approx. 24.7 megapixels   α7R: Approx. 36.8 megapixels
Image sensor aspect ratio	3:2
Anti-dust system	Charge protection coating on optical filter and ultrasonic vibration mechanism
<b>Recording system (still images)</b>	
Recording format	JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF baseline compliant), RAW (Sony ARW 2.3 format)
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)
	35mm full-frame - L: 7360 x 4912 (36M), M: 4800 x 3200 (15M), S: 3680 x 2456 (9.0M)
3:2 aspect ratio	35mm full-frame - L: 4800 x 3200 (15M), M: 3680 x 2456 (9.0M), S: 2400 x 1600 (3.8M)
	35mm full-frame - L: 7360 x 4144 (30M), M: 4800 x 2704 (13M), S: 3680 x 2072 (7.6M)
16:9 aspect ratio	35mm full-frame - L: 4800 x 2704 (13M), M: 3680 x 2072 (7.6M), S: 2400 x 1352 (3.2M)
	Wide: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M), Standard: horizontal 8192 x 1856 (15M), vertical 3872 x 2160 (8.4M)
Sweep Panorama	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
	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)
Creative Style	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)
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) and Adobe RGB standard compatible with TRILUMINOS™ Color
<b>Recording system (movies)</b>	
Recording format	AVCHD format Ver. 2.0 compliant / MP4
Video compression	AVCHD: MPEG-4 AVC/H.264 MP4: MPEG-4 AVC/H.264
Audio recording format	AVCHD: Dolby Digital (AC-3), 2ch MP4: MPEG-4 AAC-LC, 2ch
Image size (pixels)	AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH) MP4: 1440 x 1080 (30fps/12Mbps), 640 x 480 (30fps/3Mbps)
Movie functions	Audio Level Display, Audio Rec Level, Auto Slow Shutter, HDMI Info. Display (On/Off selectable)
Color space	xVCC standard (x.v.Color™ 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)
Slot	Multi slot for Memory Stick Duo / SD Memory card
<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>	
White balance	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: 15 steps, A7 to B7: 15 steps) / Custom / Underwater
<b>Modes</b>	
AWB micro adjustment	G7 to M7 (15 steps), A7 to B7 (15 steps)
<b>Bracketing</b>	
Bracketing	3 frames, HL, selectable

<b>Focus system</b>	
Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)
Focus point	117 points (phase-detection AF), 25 points (contrast-detection AF)
Sensitively range	EV 0 to EV 20 (at ISO 100 equivalent with F2.8 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 for phase-detection AF, 25 points for contrast-detection AF) / Center-weighted / Flexible Spot (S/M/L) / Zone
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	Exmor CMOS sensor
Metering sensitivity	0 to 20 EV (at ISO 100 equivalent with F2.8 lens attached)
Metering modes	Multi-segment, Center-weighted, Spot
Exposure modes	AUTO (AUTO, 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	With 3 frames in 1/3 EV, 1/2 EV, 2/3 EV, 1.0 EV, 2.0 EV or 3.0 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)	Still images: ISO 100-25600 (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, AUTO (ISO 200-6400 equivalent)
<b>Viewfinder</b>	
Type	XGA OLED, 0.5-inch (1.3cm) electronic viewfinder (color)
Total number of dots	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	Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge
Real-time image-adjustment display	On/Off
<b>LCD screen</b>	
Type	3.0-inch (7.5 cm) TFT display
Total number of dots	921,600 dots
Brightness control	Manual (5 steps between -2 and +2), Sunny/Weather mode
Adjustable angle	Up approx. 90 degrees, down approx. 45 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
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)
<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 Smart zoom (still images) M: Approx. 1.5x, S: Approx. 2.0x Digital zoom (still images) Approx. 4x Digital zoom (movies) Approx. 4x
Play/Memories 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)
Flash sync. speed	α7: 1/250 sec.   α7R: 1/160 sec.
Electronic front curtain shutter	Yes, On/Off

<b>SteadyShot INSIDE (image stabilization)</b>	
Type	Not supported (image stabilization supplied by lens)
<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	1/3, 1/2, 2/3, 1, 2, 3 EV steps, 3/5 frames (1.0/2.0/3.0 EV only 3 frames) selectable
Flash modes	Flash off, Autoflash, Fill-flash, Rear Sync., Slow Sync., Red-eye reduction (On/Off selectable), Hi-speed sync. <sup>1</sup> , Wireless <sup>1</sup>
External flash	Sony α System Flash compatible with Multi Interface Shoe. Attach the shoe adaptor for flash compatible with Auto-lock Accessory Shoe.
<b>Drive</b>	
Drive modes	Single shooting, Continuous shooting, Speed Priority Continuous shooting, 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.) <sup>2</sup>	Continuous shooting: Max. 2.5fps Speed Priority Continuous shooting: Max. 5.0fps
<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), Auto Review (10/5/2 sec. off), Image orientation (Auto/Manual/Off selectable), Slideshow, Panorama scrolling, Folder selection (Still / Date / MP4 / AVCHD), Forward/Rewind (Movie), Delete, Protect
<b>Interface</b>	
PC interface	Mass-storage, MTP, PC remote
Multi / Micro USB Terminal	Yes <sup>3</sup>
Wi-Fi	Playback of still images and movies on smartphones, PCs and TVs
NFC/NT	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	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>Compatible OS</b>	
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 ECM-CG50 / XLR-K1M external microphones (sold separately)
Speaker	Built-in, monoaural
<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. 270 shots (viewfinder) / approx. 340 shots (LCD screen) (CIPA standard)
Movies	Actual <sup>4</sup> : Approx. 60 min with viewfinder, approx. 65 min with LCD screen (CIPA standard) Continuous <sup>5</sup> : Approx. 100 min with viewfinder, approx. 100 min with LCD screen (CIPA standard)
<b>External power</b>	
Weight	AC Adaptor AC-PW20 (optional)
α7 Weight	With battery and Memory Stick PRO Duo: Approx. 1 lb 0.7 oz. (474g) Body only: Approx. 14.7 oz. (416g)
α7R Weight	With battery and Memory Stick PRO Duo: Approx. 1 lb 0.4 oz. (465g) Body only: Approx. 14.4 oz. (407g)
<b>Dimensions</b>	
W x H x D (excluding protrusions)	Approx. 5 x 3-3/4 x 1-15/16 in. (126.9 x 94.4 x 48.2mm)
<b>Operating temperature</b>	
Range	32°-104°F / 0-40°C

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.

**Number of recordable frames for single media**  
(Memory Stick PRO Duo, Image size L 36M, aspect ratio 3:2)

	2GB	4GB	8GB	16GB	32GB	64GB
Standard	280	560	1,100	2,250	4,600	9,200
Fine	195	395	800	1,600	3,200	6,400
Extra fine	105	215	435	870	1,700	3,450
RAW & JPEG	54	105	215	435	870	1,750
RAW	74	145	295	600	1,200	2,400

**Movie recording time for single media**  
(Memory Stick PRO Duo, in hours and minutes, approx.)

		2GB	4GB	8GB	16GB	32GB	64GB
AVCHD	60i 24M (FX)	0:10	0:20	0:40	1:30	3:00	6:00
AVCHD	60i 17M (FH)	0:10	0:30	1:00	2:00	4:05	8:15
AVCHD	60p 28M (PS)	0:09	0:15	0:35	1:15	2:30	5:05
AVCHD	24p 24M (FX)	0:10	0:20	0:40	1:30	3:00	6:00
AVCHD	24p 17M (FH)	0:10	0:30	1:00	2:00	4:00	8:00
MP4	1440 x 1080 12M	0:20	0:40	1:20	2:45	5:30	11:00

- Recommended memory cards for movie recording: Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, SD memory card/SDHC memory card/SDXC memory card (Class 4 or more)
- The numbers in the table show approximate maximum recordable time obtained by totaling all movie files.
- The size of a movie file is limited to approx. 2 GB.

**System requirements of supplied software**

Image Data Converter 4.0		PlayMemories Home	
Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium 4 or faster)	Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster)	Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium III 800 MHz or faster; for playing/editing HD movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.66 GHz or faster, Intel Core 2 Duo 2.26 GHz or faster (AVC HD (FX/FH)))	Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster)

- The computer environment must also satisfy the operating requirements of the OS.

**Lens support for Fast Hybrid AF**

The following lenses support phase-detection AF but some models initially require a firmware update (available from the Sony website) if not included as a kit lens with the **α7** and **α7R**: Vario-Tessar\* FE 24-70mm F4 ZA OSS, Sonnar\* FE 35mm F2.8 ZA, Sonnar T\* FE 55mm F1.8 ZA, FE 28-70mm F3.5-5.6 OSS, FE 70-200mm F4 G OSS, E 10-18mm F4 OSS, E PZ 16-50mm F3.5-5.6 OSS, Vario-Tessar T\* E 16-70mm F4 ZA OSS, E 18-55mm F3.5-5.6 OSS, E 18-200mm F3.5-6.3 OSS, E 18-200mm F3.5-6.3 OSS LE, E PZ 18-200mm F3.5-6.3 OSS, E 55-210mm F4.5-6.3 OSS, E 20mm F2.8, Sonnar T\* E 24mm F1.8 ZA, E 30mm F3.5 Macro, E 35mm F1.8 OSS, E 50mm F1.8 OSS, E PZ 18-105mm F4 G OSS. Other lenses can be used with the **α7** and **α7R** but will employ only contrast-detection AF. Additional E-mount lenses will support phase-detection AF in the future.

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