a new frame of mind
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.
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 α7 and α7R 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.

α7/α7R
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 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.

- 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.

- 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 marginally rich and subtle gradations. Moreover, innovations that could only be achieved by Sony reproduce details more faithfully so that every scene looks incredibly real.

Advances in sensor technology

The exceptional performance and sensitivity of the image sensor is achieved with the help of these 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 gradations. 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.

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).
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.

Extraordinary detail

BIONZ® X

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 sky) 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).
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.

Dust and moisture resistance
Creative 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.

Dust particles dislodged by vibration

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.

Ant-dust system

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.

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 setting 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.

Faithful OLED feedback

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 α9 camera despite the compact body. The Tru-Finder realistically displays what will appear in your recording, including the effects of your camera settings, so you can accurately monitor the results. You can choose from 3 times the contrast of the α9, 100% frame coverage and a wide viewing angle are also provided.

High-end features like 100% frame coverage and a wide viewing angle are also provided.

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.

Variable information display
swift intuitive control

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 56 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 every framing 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.
**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.

**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.

**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 for accurate, quicker focusing. This ensures better subject tracking and detection performance than ever before.

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 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.

Spatial object detection

Real-time focusing analysis enables faster, more accurate AF performance.
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® 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.

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

An HDMI terminal makes it easy to transfer full HD movie signal 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 on.

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.

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 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.

Optional XLR Adaptor Kit for professional sound production

This adaptor kit features XLR terminals, the professional standard for movie production, to enable sound recording using wide-ranging professional microphones and line input for sound input. The ability to separately control left and right channel input directly from the α7R adapts to help simplify post-shoot editing.
Auto HDR (High Dynamic Range)

Auto HDR expands the dynamic range of your images from darkest shadows to brightest highlights. It captures 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.

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.

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.
**INTUITIVE CONTROL**

**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.

**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.

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

**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 A7 or A7R 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 unforgettable colorful moments, from the complex shades in a shimmering blue sky to the natural tones of a rosy complexion.

**Exposure modes**

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

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

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

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 Basket and Future Effect.**

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Connect to smartphones and tablets with one touch
You can instantly transfer a photo or AVI movie to your Android™ smartphone or tablet by simply touching with the α7 and α7R—thanks to built-in Wi-Fi and NFC™ (Near Field Communication). Once uploaded 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 allows you control the camera’s shutter release from your smartphones 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.

Image Data Converter
Advanced features enable manipulation, conversion and management of full-resolution RAW images. You can expertly adjust exposure, white balance, flash compensation, contrast, hue and sharpness— as well as apply DRO and vignetting compensation. Bundled Remote Camera Control software also lets you remotely activate and deactivate 3D movie recording and control various camera settings from a PC.

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

Spark your imagination and discover new ways to enjoy your favorite photos and videos with Sony’s PlayMemories suite.
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™
all new full-frame FE lens lineup

FE lenses are meticulously designed to complement the α7 and α7R series, 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 glass
- ED glass
- Advanced Aspherical lens
- Aspherical lens
- Internal focusing
- Focus hold button
- Focus range limiter
- ADI flash metering
- SAM (Super Sonic wave Motor)
- OSS (Optical SteadyShot)
- Nano AR Coating

IDEALLY SIZED FOR THE COMPACT α7 AND α7R BODY

Sony 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. If 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 its 9-blade circular aperture.
Size: 64.4mm (diameter) x 70.5mm (length)
Filter diameter: 49mm
Minimum focus: 0.5m
Lens groups/elements: 5/7
Weight: Approx. 281g

Sony 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 the details even in the periphery of your images.
Size: 61.5mm (diameter) x 36.5mm (length)
Filter diameter: 49mm
Minimum focus: 0.35m
Lens groups/elements: 5/7
Weight: Approx. 120g

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

FE 28-70mm F3.5-5.6 OSS (SEL2870)*
This compact 28-70mm zoom lens offers superb performance with outstanding clarity, beautiful rendering and practical wide-open aperture usage throughout the entire 28-70mm focal length range. It features aspherical and ED glass lens elements, as well as built-in Optical SteadyShot Image Stabilization.
Size: 72.5mm (diameter) x 83mm (length)
Filter diameter: 55mm
Minimum focus: 0.3m (wide) - 0.45m (tele)
Lens groups/elements: 8/9
Weight: Approx. 295g

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

A Vario-Tessar T* 24-70mm F4 OSS (SEL2470Z)" This compact 24-70mm full-frame Carl Zeiss standard 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.
Size: 72.5mm (diameter) x 83mm (length)
Filter diameter: 77mm
Minimum focus: 0.35m (wide) - 0.45m (tele)
Lens groups/elements: 9/11
Weight: Approx. 295g

*Available in spring 2014

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.

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.

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

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.

Highly responsive subject tracking AF assured
When the α7 and α7R are fitted with a mount adaptor featuring innovative Translucent Mirror Technology—a 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.

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.

Carl Zeiss lenses
Planar T* 85mm F1.4 ZA (SAL85F14ZA)
Planar T* 50mm F1.4 ZA (SAL50F14ZA)
Distagon T* 24mm F2 ZA SSM (SAL24F20Z)
Sonnar T* 135mm F1.8 ZA (SAL135F18ZA)
Vario-Sonnar T* 24-70mm F2.8 ZA SSM (SAL2470Z)

Zoom lens
28-75mm F2.8 SAM (SAL2875)

G lenses
35mm F1.4 G (SAL35F14G)
300mm F2.8 G SSM II (SAL300F28G2)
500mm F4 G SSM II (SAL500F40G)
70-300mm F4-5.6 G SSM II (SAL70300G2)
70-400mm F4-5.6 G SSM II (SAL70400G2)

Fixed focal length lenses
10mm F2.8 Fisheye (SAL10F28)
20mm F2.8 (SAL20F28)
50mm F1.4 (SAL50F14)
50mm F2.8 Macro (SAL50F28)
85mm F2.8 SAM (SAL85F28)
100mm F2.8 Macro (SAL100F28)
150mm F2.8 (T6.3) STF (SAL150F28)

* The LA-EA4 mount adaptor features Translucent Mirror Technology.
Wide-ranging APS-C lenses

All of the wide-ranging APS-C format lenses available from Sony’s extensive E-mount and A-mount lens lineages 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.

E-mount APS-C lenses

- **E 10-18mm F4 OSS (SEL1018)***
- **E 16-50mm F3.5-5.6 OSS**1 (SEL1650)
- **E 16-50mm F3.5-5.6 OSS1** (SEL1650Z)
- **E 18-55mm F3.5-5.6 OSS**1 (SEL1855)
- **E 18-200mm F3.5-6.3 OSS (SEL18200G)**
- **E 18-200mm F3.5-6.3 OSS LE1 (SEL18200GLE)**
- **E 55-210mm F4.5-6.3 OSS**1 (SEL55210G)
- **E 16mm F2.8 (SEL16F28)**
- **E 20mm F2.8 (SEL20F28)**
- **E 35mm F1.8 OSS (SEL35F18)**
- **E 50mm F1.8 OSS (SEL50F18)**
- **Vario-Sonnar T* E 16-70mm F4 ZA OSS (SEL1670Z)**
- **Vario-Tessar T* E 16-70mm F4 ZA OSS (SEL1670Z)**
- **Vario-Sonnar T* E 24mm F1.8 ZA (SEL24F18Z)**
- **Vario-Sonnar T* E 35mm F1.8 ZA (SEL35F18Z)**
- **Vario-Sonnar T* E 16-105mm F4 G OSS (SEL16105G)**
- **E PZ 18-105mm F4 G OSS (SELP18105G)**
- **E PZ 18-105mm F4 G OSS (SELP18105G)**
- **E PZ 18-200mm F3.5-6.3 OSS LE2 (SEL18200LE)**
- **E PZ 18-200mm F3.5-6.3 OSS LE2 (SEL18200LE)**

A-mount APS-C lenses

- **DT 11-18mm F4.5-5.6 (SAL1118)**
- **DT 16-50mm F2.8 SAM (SAL1650)**
- **DT 18-55mm F3.5-5.6 SAM (SAL1650)**
- **DT 51-200mm F4-5.6 SAM (SAL51200)**
- **DT 35mm F1.8 SAM (SAL35F18)**
- **DT 50mm F1.8 SAM (SAL50F18)**
- **DT 18-210mm F3.5-5.6 SAM II (SAL18210)***
- **DT 30mm F2.8 Macro SAM (SAL30F28)***
- **Vario-Sonnar T* DT 16-50mm F3.5-5.6 SAM II (SAL1650)**
- **Vario-Sonnar T* DT 16-50mm F3.5-5.6 SAM II (SAL1650)**

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.

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.

E-mount APS-C lenses

- **Fisheye Converter (VCL-EC7)**
- **Ultra Wide Converter (VCL-ECU1)**
- **Fisheye Converter (VCL-ECF1)**
- **Ultra Wide Converter (VCL-ECU1)**

A-mount APS-C lenses

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

Lens compatibility

The α7 and α7R are compatible with nearly all lenses from Sony’s extensive lineages. 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.

1. Requires a mount adaptor.
2. Some E-mount lenses can be mounted on the α7 and α7R.
3. Noise may occur at high sensitivity (ISO) settings when mounted on the α7 and α7R.
**SPECIFICATIONS**

**Audio recording format**
- AVCHD: Dolby Digital (AC-3), 2ch
- MP4: MPEG-4 AAC-LC, 2ch

**Video compression**
- AVCHD: MPEG-4 AVC/H.264
- MP4: 24p/24Mbps/FX, 24p/17Mbps/FH

**Recording system (movies)**
- 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)
- 16:9 aspect ratio: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M)

**Image size (pixels)**
- 7: 24.3 megapixels
- 3: 16:9 aspect ratio: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M)

**Noise reduction**
- Off, Dynamic Range Optimizer (Auto/Level (1-5))

**Color space**
- xvYCC standard (x.v.Color™ when connected via HDMI cable)

**Movies functions**
- Audio Level Display, Audio Rec Level, Auto Slow Shutter, HDMI info.

**Image sensor**
- Exmor CMOS sensor

**Metering sensor**
- Multi Point (117 points for phase-detection AF, 25 points for contrast-detection AF)

**Focus area**
- Multi Point (117 points for phase-detection AF, 25 points for contrast-detection AF)

**Focus system**
- Fast Hybrid AF (phase-detection AF/contrast-detection AF)

**Focus magnifier**
- 35mm full-frame: 5.9x, 11.7x, APS-C: 3.8x, 7.7x

**Shutter speed**
- Movies: 1/8000 to 1/4 (1/3 step)
- Still images: approx. 1/8000 sec.

**Flash modes**
- Flash off, Autoflash, Fill Flash, Rear Sync., Slow Sync.

**Flash control**
- Pre-Flash TTL

**Flash bracketing**
- 1/3, 1/2, 2/3, 1, 2, 3 EV steps

**Remote control**
- Auto Object Framing: On / On (Regist. Faces) / Off

**Face detection**
- On / Off

**Auto WB**
- Auto WB / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm 2500 to 9900K & Color Filter (G7 to M7: 15 steps, A7 to B7: 15 steps)

**Color temperature control**
- Manual (5 steps)

**Brightness control**
- Manual (5 steps between -2 and +2), Sunny Weather mode

**Digital zoom**
- Movies: Approx. 4x

**Auto Object Framing**
- Yes

**Face detection**
- On / On (Regist. Faces) / Off

**Face registration**
- Face selection (Max. 9)

**Display**
- Graphic Display / Display All Info. / No Disp. Info. / Histogram / Brightness control

**LCD screen**
- Approx. 0.71x (with 50mm lens at infinity, -1m-1 diopter)

**Focus point**
- 117 points (phase-detection AF), 25 points (contrast-detection AF)

**Sensitivity range**
- EV 0 to EV 20 (at ISO 100 equivalent with F2.8 lens attached)

**AF illuminator**
- Built-in, LED type

**AF area illuminator**
- Approx. 0.30-3m

**AF illuminator/ Self-timer lamp**
- Image sensor

**Built-in microphone**
- For viewfinder

**Power switch/Shutter button**
- For movie recording

**Exposure compensation dial**
- +3 to -3 steps

**Memory card cover**
- For viewfinder

**MOVIE button**
- For movie recording

**Playback button**
- For playing back

**Eyepiece sensor**
- For viewfinder

**MENU button**
- For menu selection

**HDMI micro jack**
- Micro 3.5mm jack

**Multi Terminal**
- For external monitor, microphone, audio input

**Speaker**
- Built-in, monaural

**Rear dial**
- For menu selection

**Control wheel**
- For menu selection

**Image index button**
- For viewfinder

**HDMI info.**
- For HDMI output

**TRILUMINOS™ Color**
- With 5 frames in 1/3, 1/2, 3.0 EV increments.

**Still images**
- Approx. 270 shots (viewfinder) / approx. 340 shots (LCD screen)

**Battery**
- Rechargeable battery pack NP-FW50

**Dimensions**
- Actual5,6: Approx. 60 min with viewfinder, approx. 65 min with LCD screen
The computer environment must also satisfy the operating requirements of the OS. System requirements of supplied software

<table>
<thead>
<tr>
<th>Lens support for Fast Hybrid AF</th>
</tr>
</thead>
</table>

- Recommended memory cards for movie recording: Memory Stick PRO Duo, 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
- The computer environment must also satisfy the operating requirements of the OS.

**System requirements of supplied software**

<table>
<thead>
<tr>
<th>Image Data Converter 4.0</th>
<th>PlayMemories Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows® Vista®, SP2, Windows® 7 SP1, Windows® 8 (Pentium 4 or faster)</td>
<td>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 (AVCHD HD (FX/FH))</td>
</tr>
</tbody>
</table>

**Number of recordable frames for single media**

(Memory Stick PRO Duo, Image size L 36M, aspect ratio 3:2)

<table>
<thead>
<tr>
<th>2GB</th>
<th>4GB</th>
<th>8GB</th>
<th>16GB</th>
<th>32GB</th>
<th>64GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>560</td>
<td>1,100</td>
<td>2,250</td>
<td>4,600</td>
<td>9,200</td>
</tr>
<tr>
<td>Fine</td>
<td>195</td>
<td>395</td>
<td>800</td>
<td>1,600</td>
<td>3,200</td>
</tr>
<tr>
<td>Extra fine</td>
<td>105</td>
<td>215</td>
<td>435</td>
<td>870</td>
<td>1,750</td>
</tr>
<tr>
<td>RAW &amp; JPEG</td>
<td>54</td>
<td>105</td>
<td>215</td>
<td>435</td>
<td>870</td>
</tr>
<tr>
<td>RAW</td>
<td>74</td>
<td>145</td>
<td>295</td>
<td>600</td>
<td>1,200</td>
</tr>
</tbody>
</table>

**Movie recording time for single media**

(Memory Stick PRO Duo in hours and minutes, approx.)

<table>
<thead>
<tr>
<th>2GB</th>
<th>4GB</th>
<th>8GB</th>
<th>16GB</th>
<th>32GB</th>
<th>64GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVCHD 60i 24M (FX)</td>
<td>0:10</td>
<td>0:20</td>
<td>0:40</td>
<td>1:30</td>
<td>3:00</td>
</tr>
<tr>
<td>AVCHD 60i 17M (FH)</td>
<td>0:10</td>
<td>0:30</td>
<td>1:00</td>
<td>2:00</td>
<td>4:05</td>
</tr>
<tr>
<td>AVCHD 60p 28M (PS)</td>
<td>0:09</td>
<td>0:15</td>
<td>0:35</td>
<td>1:15</td>
<td>2:30</td>
</tr>
<tr>
<td>AVCHD 24p 24M (FX)</td>
<td>0:10</td>
<td>0:20</td>
<td>0:40</td>
<td>1:30</td>
<td>3:00</td>
</tr>
<tr>
<td>AVCHD 24p 17M (FH)</td>
<td>0:10</td>
<td>0:30</td>
<td>1:00</td>
<td>2:00</td>
<td>4:00</td>
</tr>
<tr>
<td>M4</td>
<td>1440 × 1080</td>
<td>12M</td>
<td>0:20</td>
<td>0:40</td>
<td>1:20</td>
</tr>
</tbody>
</table>

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

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