### Main specifications of α7R II

**General**

- **Magnification**: Approx. 0.78x (with 50mm lens at infinity, -1m
- **Color temperature control**: Manual (5 steps)

**Audio recording format**

- **AVCHD**: MPEG-4 AVC/H.264
- **MP4**: MPEG-4 AVC/H.264
- **XAVC S 4K**: 3840 x 2160 (25p/100Mbps, 25p/60Mbps)
- **XAVC S HD**: 1920 x 1080 (60p/50Mbps, 30p/50Mbps, 24p/50Mbps), 1280 x 720 (120p/50Mbps)

**Video compression**

- **MP4**: MPEG-4 AAC-LC, 2ch

**Image size (pixels)**

- **APS-C L**: 5168 x 3448 (18M), M: 3984 x 2656 (11M), S: 2592 x 1728 (4.5M)
- **16:9 aspect ratio**: 35mm full frame L: 7952 x 4472 (36M), M: 5168 x 2912 (15M), S: 3984 x 2240 (8.9M)

**White balance**

- **Auto Object Framing**: Yes
- **Creative Style**: Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves
- **13 modes**: Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R, G, B, Y), High Contrast, Box 1-6 also provided

**Exposure control**

- **AE bracketing**: Bracket: Single/Bracket: Cont., 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0 or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3 or 1.0 EV increments.
- **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)

**Metering sensitivity**

- EV -3 to EV 20 (at ISO 100 equivalent with F2.0 lens attached)

**Metering sensor**

- **Type**: Fast Hybrid AF (phase-detection AF / contrast-detection AF)

**Sensitivity range**

- EV -2 to EV 20 (at ISO 100 equivalent with F2.0 lens attached)

**Focus**

- **Expand Flexible Spot**
- **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. 0.5m (2.0 ft.) with AF illuminator on, Approx. 2.0m (6.6 ft.) with AF illuminator off)

**Focus system**

- **Type**: 7.5cm (3.0 type) TFT drive
- **Peaking MF**: Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
- **Auto Object Framing**: Yes
- **Focus lock**: Lock-on AF, Eye AF, Predictive control
- **Expand Flexible Spot**: Multi / Micro USB Terminal

**Viewfinder**

- **Display**: Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge
- **9/25-frame index view, Enlarged display mode (Maximum magnification L: 24.9x, M: 16.2x, S: 9.4x), 3.0 cm (1.2")

**Playback**

- **Multi Playback**: 9/25-frame index view, Enlarged display mode (Maximum magnification L: 24.9x, M: 16.2x, S: 9.4x)
- **4K Blurr Detection**: Off
- **Playback modes**: 9/25-frame index view, Enlarged display mode (Maximum magnification L: 24.9x, M: 16.2x, S: 9.4x)
- **Continuous self-timer (3 frames after 10 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer (Off/2 sec. delay/5 sec. delay/10 sec. delay)
- **Auto Object Framing**: Yes

**Specifications**

- **Video**
  - **Smart zoom (still images)**: M: Approx. 1.5x, S: Approx. 2.0x
- **Interchangeable-lens digital camera**

**Noise reduction**

- **Noise reduction**: Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low/High

**AF illuminator**

- **AF illuminator**: Built-in, LED type, range: Approx. 0.5m (2.0 ft.) with AF illuminator on, Approx. 2.0m (6.6 ft.) with AF illuminator off

**Television**

- **Television**: Standard Definition (4:3), High Definition (16:9)

**Multi/Micro USB Terminal**

- **Multi/Micro USB Terminal**: Yes

**Image sensor**

- **Aspect ratio**: 3:2

**Anti-dust system**

- **Charge protection coating on optical filter and image sensor shift mechanism

**Image sensor aspect ratio**

- 16:9 aspect ratio

**Memory Stick Duo**

- **Corporate logos**: Sony, Exmor, Exmor R, BIONZ X, BRAVIA, SteadyShot, InfoLithium, Translucent Mirror Technology, Tru-Finder, Memory Stick, Memory Stick PRO Duo, Memory Stick PRO-HG Duo

**Power**

- **Battery**: NP-FZ100
- **Charger**: BC-QZ1

**Weight**

- **Approx. 625g (approx. 1 lb 6.0 oz.)

**Sensor type**

- **Sensor type**: Full-frame, 35mm format, CMOS image sensor

**Shutter**

- **Shutter**: Electronically controlled focal-plane type, focal plane shutter

**Shutter speed**

- 30 sec. to 1/8000 sec. (1/3 step)

**Exposure**

- **Exposure mode**: Program mode

**Focal plane shutter**

- **Focal plane shutter**: 30 sec. to 1/8000 sec. (1/3 step)

**Display**

- **Display**: 5.7cm (2.2")

**Focus screen**

- **Focus screen**: 3.69m (12MP)

**Image size**

- **Image size**: 7952 x 4472 (36M), 5168 x 2912 (15M), 3984 x 2240 (8.9M)

**Color temperature control**

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

**Audio recording format**

- **Audio recording format**: MP4: MPEG-4 AAC-LC, 2ch

**Video compression**

- **Video compression**: MP4: MPEG-4 AVC/H.264

**Image size**

- **Image size**: 35mm full frame L: 7952 x 4472 (36M), M: 5168 x 2912 (15M), S: 3984 x 2240 (8.9M)

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Full-frame, palm-sized α.
Reality realized.

See reality as your mind’s eye envisions it with the incredible new Sony α7R II. The world’s first*1 back-illuminated 35mm full-frame CMOS image sensor gives this camera capability to deliver 42.4-megapixel*2 resolution, high sensitivity and fast response that are apparent in every amazing picture. The Fast Hybrid AF system’s extra-wide dense focal plane phase-detection AF coverage keeps subjects in sharp focus, while 5-axis image stabilization reduces blur which otherwise tends to affect handheld shots. High-resolution imaging is further enhanced by 4K movie recording now featuring full pixel readout without pixel binning. With so much innovation packed into such a compact form, it’s clear that there is more to life than meets the naked eye.

• The world’s first*1 back-illuminated 35mm full-frame Exmor R™ CMOS sensor with 42.4 megapixels*2
• BIONZ X™ image processing engine
• High sensitivity up to ISO 102400*3
• Fast Hybrid AF upgraded to 399-point wide focal plane phase-detection AF coverage
• 5-axis image stabilization for stills and movies
• Higher-resolution 4K (QFHD: 3840 x 2160) movie recording features full pixel readout without pixel binning in Super 35mm format
• XGA OLED Tru-Finder™ with ZEISS® T* Coating features the world’s highest*4 viewfinder magnification of 0.78x
• Wi-Fi/NFC™ functions
• PlayMemories Camera Apps™

*1 Among digital still cameras equipped with a 35mm full-frame image sensor. As of June 2015 based on Sony research.
*2 Approximate effective megapixels.
*3 ISO 100-25600 expandable to ISO 50–102400 for shooting still images.
*4 Among digital still cameras. The viewfinder magnification is approx. 0.78x (with 50mm lens at infinity, -1m⁻¹). As of June 2015 based on Sony research.
Sonnar T* FE 55mm F1.8 ZA (SEL55F18Z), 1/160 sec., F8, ISO 100
Superior clarity, sensitivity, and response

New 35mm full-frame Exmor R CMOS image sensor with 42.4 megapixels

The world’s first\(^1\) back-illuminated 35mm full-frame Exmor R CMOS sensor achieves approx. 42.4 effective megapixel resolution, widely expanded sensitivity up to ISO 102400\(^2\), and extra-low noise performance to reveal fine details even in enlargements of images. The back-illuminated structure enhances light collection efficiency and expands the circuitry scale — an advantage which, together with a copper wiring layer for faster data transmission, makes data output about 3.5 times faster\(^3\). The result: lightning-fast autofocus-responding and absolutely clear 4K movies with full pixel readout.

* Among digital still cameras equipped with a 35mm full-frame image sensor. As of June 2015 based on Sony research.

* ISO 100-25600 expandable to ISO 50–102400 for shooting still images.

* In comparison with the α7R.

High-speed BIONZ X image processing engine

Witness more outstanding picture quality. With detail reproduction technology to faithfully capture people’s perception of realism, diffraction-reducing technology to maintain sharp, fine clarity even at smaller aperture settings, area-specific noise reduction to reduce noise adaptively according to image area characteristics and reproduce greater detail, plus more, the BIONZ X image processing engine finely tunes the new image sensor’s 42.4-megapixel data, for truer, clearer, more natural depiction.

Raising resolution even higher

No optical low-pass filter
Since the camera has no optical low-pass filter that can compromise high resolution, every shot you take benefits from the fine edge-to-edge clarity and detail that the higher-performance image sensor and \( \alpha \) lenses deliver.

All FE lenses maximize resolution
The growing group of FE lenses (35mm full-frame compatible E-mount lenses) — all carefully developed to match full-frame image sensors employing increasing numbers of pixels — makes the most of the 42.4-megapixel high-resolution performance of the \( \alpha \)7R II.

Durable reduced-vibration shutter
The new shutter’s braking mechanism cuts mechanical front/rear curtain vibration by about 50\(^\%\). Also, use the electronic front curtain for even less vibration. This not only minimizes camera shake that can blur details in 42.4-megapixel images — it makes the shutter durable enough to have been tested to 500,000\(^2\) cycles.

Silent Shooting
Silent Shooting features an electronic shutter that is noiseless and causes no vibration, so you can shoot high-resolution images without camera shake.

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Fast Hybrid AF takes better aim at what’s to come

Your shots of action can look clearer than ever, thanks to a new full-frame image sensor that assures wide-area coverage with 399 focal plane phase-detection AF points. With its accelerated readout and an advanced algorithm to anticipate subject movement, the sensor also makes it possible for the Fast Hybrid AF system to raise speed, accuracy, and tracking performance to incredible heights. These smart capabilities outperform those of conventional AF systems to deliver crisper images that make the most of the camera’s unprecedented 42.4-megapixel potential.

Even when the action is too unpredictable or sudden for you to see, the α7R II has it covered. A full-frame image sensor providing the highest\(^1\) number of focal plane phase-detection AF points, at 399, and the widest\(^2\) coverage, of 45% of the image area, in the world provides extraordinary power to focus on a great range of action. 25-point contrast-detection AF coverage is also included.

\(^1\) Among digital still cameras. As of June 2015 based on Sony research.

\(^2\) Among digital still cameras equipped with a 35mm full-frame image sensor. As of June 2015 based on Sony research.

Faster readout thanks to the back-illuminated structure of the image sensor improved AF response so dramatically that the AF system of the α7R II instantly captures even fast-moving subjects with razor-sharp clarity. Phase-detection AF, contrast-detection AF and BIONZ X also contribute to speedy, accurate AF performance, while a more advanced algorithm enhances the accuracy of subject detection, optimizing lens drive movement to raise AF speed by 40%.*

* In comparison with the α7R.

Fast Hybrid AF for movies

Simultaneous readout of live-view image and phase-detection AF information from the image sensor makes the extra-precise, smooth Fast Hybrid AF of the α7R II great for shooting movies — especially 4K movies which can otherwise reveal even a slight lack of sharpness in subject focus. AF drive speed and AF Tracking Sensitivity are also adjustable to support creative moviemaking.

FE 70-200mm F4 G OSS (SEL70200G), 1/1000 sec., F4.5, ISO 200

The α7R II offers focal plane phase-detection AF even when an A-mount lens is mounted* via LA-EA3 (LA-EAT\(^2\)) mount adaptor. So you can take advantage of the wide AF coverage of 199 focal plane phase-detection AF points, high-speed response, high tracking capability and high optical performance of A-mount lenses.

* A-mount lenses with SSM or SAM only. Choose phase-detection AF or contrast-detection AF in AF System menu.

*2 Images are recorded in APS-C format.

Expand Flexible Spot

If the selected AF point is not positioned on your subject, the α7R II automatically uses AF points surrounding the selected point to support precise focus.

Enhanced Eye AF

Now also available in AF-C focus mode, Eye AF automatically detects and tracks an eye of even a moving subject, for more framing freedom.
5-axis SteadyShot INSIDE

Steadier images worthy of higher resolution

5-axis image stabilization

The 5-axis image stabilization system is fine-tuned for high-resolution image sensors. It accurately compensates for five types of camera shake that can compromise handheld shooting of the camera’s 42.4-megapixel images, so you can zoom in on faraway subjects, shoot close-ups and capture night scenes with minimal camera shake blur. Camera shake compensation is equivalent to using a 4.5-step* faster shutter speed, allowing you to take advantage of a wider range of shutter speeds.

* Based on CIPA standard. Pitch/yaw shake only. With Sony’s T* FE 55mm F1.8Z lens mounted. Long exposure NR off.

Compatibility with wide-ranging mountable lenses

5-axis image stabilization lets you enjoy unparalleled handheld shooting freedom with more of your favorite mountable lenses. The short flange-back distance in the E-mount α7RII extends compatibility with a range of lenses.

Stable viewfinder image

You can monitor the stabilizing effects of camera shake compensation in the viewfinder or LCD screen while shooting still images by pressing the shutter button halfway or magnifying the image, and while shooting movies by entering movie mode. Even when using a telephoto or macro lens, you can fine-tune framing and focusing without stress for steady results.

XAVC S format now supports 4K recording at maximum 100Mbps bit rate as well as Full HD recording at 50Mbps, so the α7RII can capture movies filled with finely detailed movement. For efficient handling, XAVC S files are minimized in size using Long GOP data compression, and contained in the widely compatible MPEG-4 AVC/H.264 format.

The α7RII optimizes your operations with Picture Profile to adjust image tone, S-Log2 Gamma (only ISO 800 or higher is available when S-Log2 Gamma is selected) and S-Gamut realizing wide dynamic range and wide color space, respectively, HD-resolution (1280 x 720 pixels) movies that can be recorded at 120fps, time code and user bit for precise editing, and REC Control to sync recording in the camera and a compatible external recorder. The movies can be recorded in the camera* even while signals are output using Clean HDMI output function.

Advanced movie functions support professional workflow

The α7RII’s Picture Profile allows you to adjust image quality, time code and user bit for precise editing, and REC Control to sync recording in the camera and a compatible external recorder. The movies can be recorded in the camera* even while signals are output using Clean HDMI output function.

Note: When using a third-party mount adapter, performance, functionality and operation are not guaranteed and Sony will take no responsibility if a malfunction occurs.

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Enhanced grip and shutter button

The grip is refined in shape and height to support a more secure grasp of the camera even when a large lens is mounted. This also contributes to more confident operation of the shutter button and dials. Moreover, the shutter button has been reshaped and shifted forward to enable more natural shooting with less camera shake.

Meticulously crafted controls

Controls are refined for intuitive operation and immediate adjustment even while looking through the viewfinder. The front and rear dials have been particularly refined and positioned for easier, more efficient handling and turning. Also, a new mode dial locking mechanism prevents inadvertent changes of shooting mode at all times.

You can assign any of 64 functions* to any of 10 customizable buttons as you like. This makes operation more intuitive, quick and easy, and is extra-convenient for accessing such functions as starting and stopping of movie recording and switching between viewfinder and monitor.

* Some functions can only be assigned to certain buttons.

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Operation of the α7R II can be powered via USB connection to a PC or mobile battery. This conserves the camera’s battery, allowing you extended use of the camera without worrying that the battery will run out. When the camera is turned off, the battery can be charged via the same connection.

Dust and moisture resistance

Enjoy carefree shooting in tough environments, thanks to comprehensive dust and moisture resistance measures that help 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. Note: This camera is designed for optimal dust and moisture resistance, but is not waterproof or splashproof.

XGA OLED Tru-Finder makes every view a vision

With the world’s highest* magnification at 0.78x (full-display diagonal field of view; approx. 38.5 degrees; live-view display diagonal field of view; approx. 37.2 degrees) among digital still camera viewfinders and a new four-lens optical system with double-sided aspherical elements, the XGA OLED Tru-Finder provides views of cutting-edge clarity and contrast throughout the entire width and length of the display. Better yet, ZEISS T* Coating ensures absolutely minimal surface reflection. As an electronic viewfinder, the Tru-Finder can instantly show how exposure compensation, white balance and other selected settings affect image appearance including background blur, and faithfully depicts the extraordinary 42.4-megapixel images, complementing the camera’s powerful high-resolution performance.

Power supply via USB

The strength and rigidity of the body and lens mount have been enhanced to provide an especially solid foundation for mounting large, heavy lenses such as super telephoto lenses and those preferred for movie shooting.

Convenient tiltable LCD screen

The LCD screen tilts upward approx. 107 degrees and downward approx. 41 degrees to accommodate wide-ranging shooting angles. This flexibility combines with compact mobility to greatly expand your shooting options. Viewing is also clear under direct sunlight thanks to WhiteMagic™ technology that nearly doubles the brightness of the display through a unique RGBW pixel structure for easier checking of the focus and image details.

Easy button customization

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Robust lens mount

You can assign any of 64 functions* to any of 10 customizable buttons as you like. This makes operation more intuitive, quick and easy, and is extra-convenient for accessing such functions as starting and stopping of movie recording and switching between viewfinder and monitor.

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Tough magnesium alloy body

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The α7R II’s compact body is built to withstand the rigors of shooting in the field, thanks to an internal structure and top, front, and rear covers all made of strong, rigid magnesium alloy.

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Enjoy carefree shooting in tough environments, thanks to comprehensive dust and moisture resistance measures that help 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. Note: This camera is designed for optimal dust and moisture resistance, but is not waterproof or splashproof.

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A wealth of possibilities at your command

Connect to smartphones and tablets with one touch!

Thanks to built-in Wi-Fi and NFC™ (Near Field Communication)*, you can instantly transfer a photo or image simply by touching the α7R II with the receiving smartphone or tablet, then upload it directly to your favorite SNS with ease. Touching your mobile device with the camera can also activate Smart Remote Control, which is preinstalled in the camera and lets you control the camera’s shutter release from your smartphone or tablet. Setting up your mobile device is as simple as downloading a free PlayMemories Mobile app (www.sony.net/pmmb/).

* Requires NFC-compatible Android device.

More precise white balance adjustment

The α7R II offers more white balance adjustment steps (twice as many on the amber-blue axis, four times as many on the green-magenta axis) than before, so you can finely tune white balance with more subtle precision for more natural colors.

Multi Frame NR (Noise Reduction)

This mode composites four shots to significantly suppress noise and raise sensitivity, letting you clearly capture dark scenes without a tripod or flash. Camera shake blur is also lowered while contrast and detail are raised.

ISO Auto Minimum Shutter Speed

Prevent blur in a shot of a moving subject by setting a shutter speed at which ISO sensitivity starts changing when ISO AUTO (while in P or A mode, or in Multi Frame NR) is selected.

1200-zone Evaluating Metering

Ample data from 1200-zone metering and focal plane phase-detection AF points allows for more precise control of light volume from an external flash that complements ambient light. Choose Multi-segment, Center-weighted or Spot metering mode.

Table: Number of recordable frames for single media

<table>
<thead>
<tr>
<th>Media</th>
<th>Standard</th>
<th>Fine</th>
<th>Extra Fine</th>
<th>Raw &amp; JPEG</th>
<th>Raw</th>
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<tr>
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<td>Raw 4,200</td>
<td>1,100</td>
<td>2,200</td>
<td>4,400</td>
<td>8,800</td>
<td>17,600</td>
</tr>
<tr>
<td>Raw 8,500</td>
<td>700</td>
<td>1,400</td>
<td>2,800</td>
<td>5,600</td>
<td>11,200</td>
</tr>
</tbody>
</table>

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

D-range Optimizer (DRO)

In difficult lighting, DRO corrects your images to achieve smoother, more natural gradations with more detail in the highlights and shadows. You can use it during continuous shooting and when photographing moving subjects.

Focus Magnifier & Peaking function

You can clearly magnify the image to simplify manual fine-tuning of focus, let you colorize the image as you wish, and lets you control the camera’s shutter release from your smartphone or tablet.

Creative Style

Creative Style settings bring out the character of your scene. Simply select any of 13 settings (Vivid, Portrait, etc.) and the camera will adjust image parameters. You can also fine-tune contrast, saturation* and sharpness to suit your preference.

Auto HDR (High Dynamic Range)

Auto HDR composites the best details from three exposures to expand the dynamic range of your images from darkest shadows to brightest highlights and capture all the tonal gradations seen by your naked eye.

Clear Image Zoom

Whether shooting still images or movies, this feature digitally zooms the center of your image up to 2x with nearly imperceptible degradation, thanks to proprietary By Pixel Super Resolution Technology.

Note: Requires a valid Sony Entertainment Network account. Some apps require a fee.

Note: Requires a valid Sony Entertainment Network account. Some apps require a fee.
Achieve your full potential

FE lenses clearly match camera capabilities

Broaden your photographic horizons with Sony’s expanding line of 35mm full-frame compatible E-mount lenses. All 13 of them (and those to come) are designed to realize the full potential of the 42.4 megapixels of the α7R II.

A-mount full-frame lenses expand perspectives

With a Sony LA-EA3 or LA-EA4 mount adaptor, you can attach to the camera any member of the Sony A-mount full-frame lens family, which delivers optical performance worthy of the α7R II’s high resolution throughout a lineup that includes super telephoto and legendary ZEISS® lenses.

Lens compatibility

The α7R II is 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 — whether A-mount or E-mount, with or without OSS — you can be sure of outstanding performance and optimized image stabilization.
Accessories to meet every need

**Flash Units / Flash Accessories**
- HVL-F43M
- HVL-F32M
- HVL-F60M
- HVL-F43M
- HVL-F60M
- HVL-F32M
- HVL-F60M
- HVL-F43M
- HVL-F32M
- HVL-F60M
- HVL-F43M
- HVL-F32M
- HVL-F60M

**Lights / Monitor / Bracket**
- Battery POWER Light (Multifunctional) HVL-LPB1
- Battery POWER Light (Multifunctional) HVL-LPB1
- Battery POWER Light (Multifunctional) HVL-LPB1
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