### Main specifications of α7R III

#### General Camera Type
- Interchangeable-lens digital camera

#### Color Temperature Control
- Manual (5 steps)

#### Anti-flicker Shoot
- Yes

#### Index
- 9/25-frame index view, Enlarged display mode (L: 19.9x, M: 12.9x, S: 10.0x), Auto

#### Exposure
- AE Lock
  - Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)

#### Manual Exposure Compensation
- +/- 5.0EV (1/3 EV, 1/2 EV steps selectable) (with exposure compensation dial : +/- 3EV (1/3 EV, 1/2 EV steps))
- 1.0, 2.0, or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, or 1.0 EV increments.

#### Focus
- With LA-EA3
  - AF Illuminator Range
    - Approx. 0.3m - approx. 3.0m (with FE 28-70mm F3.5-5.6 OSS attached)

#### Focus Type
- Fast Hybrid AF (phase-detection AF/contrast-detection AF)

#### Viewfinder
- 3.0-type (TFT)

#### Dioptre Adjustment
- -4.0 to +3.0m

####AF Lock
- Focus lock, AF Track Sensitivity, Swt.V/H AF Area, AF Area Registration

#### Flexible Spot
- (S/M/L)/Expanded Flexible Spot

#### Manual Focus
- Flexible Spot (S/M/L) /Expanded Flexible Spot/ Lock-on AF (Wide / Zone / Center /
  - Spot, 9-point, Expanded Flexible Spot/ Lock-on AF (Wide / Zone / Center /

#### AF Tracking Sensitivity
- (S/M/L)

#### AF Sensor
- Exmor R CMOS sensor

#### Electronic Front Curtain Shutter
- Yes (ON/OFF)

#### Power Supply
- One rechargeable battery pack NP-FZ100

#### Battery Life
- Approx. 550 (with LCD off), 500 (with viewfinder on), 310 (with viewfinder on, LCD brightness: 9/25-frame index view, Auto)

#### Weight
- Approx. 657 g / approx. 1lb 7.2 oz (with battery and memory card included)

#### Dimensions
- [APS-C] L: 5168 x 2912 (15M), M: 3984 x 2240 (8.9M), S: 2592 x 1456 (3.8M)

#### Flash
- [APS-C] L: approx 3.9x, M: approx 5.2x, S: approx 8x

#### Movie Functions
- Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Proxy Recording (1280 x 720, 30p), Slow & Quick Motion (S&Q) / Day White / Daylight> / Flash /Underwater/ Color Temperature <2500 to 9900K> & color
- Creative Style
  - Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn
- Picture Effect
  - Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera(Normal/Cool/Warm/Green/Magenta),

#### Video Compression
- XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264

#### Color Space
- sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color

#### Recording Format
- RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)

#### Continuous Drive Speed
- Single (with or without shooting information Y RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (L: 19.9x, M: 12.9x, S: 10.0x), Auto

#### Playback
- Yes

#### Photo Capture
- Yes

#### Image/Video Output
- HDMI micro connector (Type-D), BRAVIA Sync(Control for HDMI), PhotoTV HD, 4K movie

#### LAN Terminal
- -

#### Multi / Micro USB Terminal
- Yes

#### Mic Terminal
- Yes (3.5 mm Stereo minijack)

#### Wi-Fi
- Compatible, IEEE 802.11b/g/n (2.4GHz band), View on Smartphone, Send to Computer,

#### GPS Terminal
- No

#### Travel Date/Time
- By GPS

#### Real-time Image Adjustment
- Phase, Color Depth, Detail, Copy, Reset

#### Brightness Control
- Manual (5 steps between -2 and +2), Sunny Weather mode

#### Recording System
- General Camera Type
- Interchangeable-lens digital camera

#### Trademarks & Remarks
- • N-Mark is a registered trademark of the NFC Forum.
  - • Dolby is a trademark of Dolby Laboratories.
  - • WhiteMagic is a trademark of Sony Corporation.
  - • "Xperia" is a trademark of Sony Mobile Communications AB.
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  - • The SD Logo, SDHC memory card, SDXC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant)
  - • "TRILUMINOS Display" and "XAVC S" are trademarks or registered trademarks of Sony Corporation.
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#### Note
- *1: Times shown in this guide are approximate. Times may vary depending on Combination or individual settings.
- *2: Movie recording time shown in this guide is approximate.
- *3: Continuous drive speed may vary depending on combination or individual settings.
- *4: Times shown in this guide are approximate. Times may vary depending on combination or individual settings.
- *5: Times shown in this guide are approximate. Times may vary depending on combination or individual settings.
- *6: Times shown in this guide are approximate. Times may vary depending on combination or individual settings.
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### Specification Options

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### Additional Information

- **Interchangeable-lens digital camera**

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Specifications are subject to change without notice.
Reality realized. New worlds.

The art of bringing the world to life in photographic form hinges on a sublime blend of technical capability and creative vision. With a new system that achieves outstanding resolution, sensitivity, dynamic range, and speed, the α7R III provides the technical capability you need to let your imagination soar and fulfill your vision with breathtaking reality. All of this comes in a compact, mobile package that is easy and intuitive to use while seamlessly supporting professional workflows. The α7R III offers the potential you need to realize concepts and explore worlds that have previously been beyond reach.

* Connect to an HDR (HLG) compatible Sony TV via a USB cable when displaying HDR (HLG) movies.
** Up to 10 fps in continuous "Hi+" mode, and up to 8 fps in continuous "Hi" mode. Maximum fps will depend on camera settings.
FE 12-24mm F4 G (SEL1224G), 2 sec., F8, ISO 100, Pixel Shift Multi Shooting mode, composited using dedicated software.
A portal to unseen worlds
Technology both frees and confines art. As it evolves restraints diminish and art comes to the fore. The α7R III makes an evolutionary leap, freeing the user to explore previously unseen worlds of detail, color, dimension, and time.

Spectacular Rendering
42.4* effective megapixel full-frame Exmor R™ CMOS sensor
Back illumination for high sensitivity, gapless on-chip lenses, anti-reflective seal glass coating, no optical low-pass filter, and other advanced features contribute to unprecedented imaging performance. High resolution, high sensitivity with low noise, and wide dynamic range add up to vastly expanded shooting potential.

Faster, more detailed image processing
The latest high-speed front-end LSI and updated BIONZ X™ image-processing engine provide a dramatic increase in system speed, plus an impressive 15-stop dynamic range at low-sensitivity settings. Advances have also been made in Sony’s Detail Reproduction Technology and Area-specific Noise Reduction features, reducing noise by as much as a full stop** in the mid sensitivity range. A sublime blend of high resolution and low noise is ensured over a wide sensitivity range, for outstanding image quality and color accuracy that are ideal for portraits and landscape photography.

Standard 100 – 32000 ISO expandable up to 102400*
The standard ISO range has been extended to ISO 100 – 32000, expandable* to ISO 50 at the low end and ISO 102400 at the high end for wide coverage that can capture low-light scenes with high quality and low noise.

16-bit processing and 14-bit RAW output
The digital output from the image sensor’s AD converter is processed in 16-bit form by the front-end LSI and BIONZ X processor before being output as compressed or uncompressed 14-bit RAW files. The result is smoother, more natural gradations that contribute to higher overall image quality. The enhanced image processing system makes 14-bit RAW output available even when shooting in silent or continuous mode.*

Versatile viewing
3.69 million dot Quad-VGA OLED Tru-Finder™
This high-resolution Quad-VGA OLED Tru-Finder has approximately 3.69 million dots for fine detail and high contrast for accurate black reproduction. High luminance brings viewfinder brightness closer to that of the actual scene. The high quality of the viewfinder image and features like focus magnification make it easier to achieve perfect focus with just about any subject in any situation.

High quality mode
“Standard” and “High” quality settings are available for the viewfinder and monitor. “High” takes advantage of the large amount of data read from the 42.4 effective megapixel sensor to provide extra fine viewfinder and monitor displays for a more natural view.

AF in Focus Magnifier
By magnifying the selected focus area while using autofocus to shoot stills this function makes it easier to achieve perfect focus, especially for macro photography and other critical applications.

Improved peaking
The evolved BIONZ X processing engine improves the accuracy of “peaking” display that highlights in-focus areas when focusing manually, making it easier to achieve precise focus.

Lightweight, durable magnesium body
To ensure maximum reliability in harsh conditions, body durability has been enhanced by the use of a lightweight, high-rigidity magnesium alloy for the top cover, front cover, internal frame, and rear cover.

Increased mount and grip rigidity
Increased lens mount rigidity maximizes durability when using heavy optics, and the grip has been redesigned and unified with the front cover using magnesium alloy for higher overall rigidity.

Durable low-vibration shutter
A new shutter unit features a fast-response coreless motor and brake system that effectively subdues mechanical vibration. The shutter has been tested for durability in excess of 500,000 shutter cycles.*

Dust and moisture resistant*
Sealing is provided at critical locations to minimize dust and moisture ingress, ensuring reliable operation in challenging environments.

* Sony internal tests with electronic front curtain shutter.

* Not guaranteed to be 100% dust and moisture proof.
Speed and precision capture perfect moments

Breakthroughs in continuous shooting and autofocus performance make it easier than ever to capture those elusive natural moments that define the photographer’s art. Enhanced operability and reliability further ensure that not a moment is lost.

High-speed continuous shooting

**Up to 10 fps** continuous shooting with AF/AE tracking

Continuous shooting at up to 10 fps* with accurate AF/AE tracking makes it possible to capture moving subjects in their most photogenic moments while taking full advantage of the camera’s 42.4 megapixel resolution and 14-bit output. The image files produced contain ample data for flexible trimming and retouching without losing image quality. It is also possible to shoot continuously at up to 8 fps* in live view mode, with minimal viewfinder/monitor display lag.

42.4 × 10 fps

**Silent continuous shooting**

Silent, vibration-free shooting at up to 10 fps** with AF/AE tracking and no cropping is also available when shooting in silent mode. Silent shooting is critical for wildlife photography where even the slightest shutter noise can mean missing the moment.

42.4 megapixel resolution provides plenty of margin for cropping.

Silent continuous shooting captures the decisive moment.

**Unprecedented AF performance**

**Updated algorithms enhance AF response**

Evolved image processing plus AF algorithms from the α9 refined and optimized for the α7RIII provide significant improvements in AF speed, precision, and tracking performance. Even the wildest motion can be tracked reliably.

4D FOCUS

**Wide: 399 phase-detection + 425 contrast AF points**

399 focal plane phase-detection AF points cover approximately 68% of the image area in the horizontal and vertical directions, complementing 425 contrast AF points for consistently reliable focus.

**Fast: Up to 2×* AF speed**

Enhanced Fast Hybrid AF System performance achieves low-light AF response that is up to twice as fast* as the α7RII. Focus is fast and reliable even in dim lighting.

* Compared to the α7RII. Sony test conditions.

**Steadfast: Subject tracking performance approximately doubled**

Tracking performance during continuous shooting has been improved by approximately 2x.* Complex, unpredictable motion is reliably tracked with greater precision than ever before.

Focal plane phase-detection AF with A-mount lenses*

Focal plane phase-detection AF also functions with A-mount lenses* mounted via the LA-EA3 adaptor, providing wide-area coverage, fast response, and high tracking performance. Eye AF is now supported with A-mount lenses*.

**Reliable AF down to EV-3 brightness**

Advanced AF algorithms contribute to high AF precision down to light levels as low as EV-3 (ISO 100 equivalent, f2.0 lens) in the AF-S mode. AF is more precise and reliable in dark scenes.

42.4 megapixel resolution provides plenty of margin for cropping.

* With SSM or SAM lenses only. With the LA-EA3 mount adapter. Focal plane phase-detection AF is not supported for movie recording. AF-C can only be used when the "Phase detection" AF system is selected, but focus is fixed at the first frame during continuous shooting in any mode other than Continuous: Lo."Hi," Hi, Mid.

* Some distortion may occur with fast-moving subjects or if the camera is moved sideways rapidly while shooting.

* Up to 10 fps in continuous “Hi+” mode, and up to 8 fps in continuous “Hi” mode. Maximum fps will depend on camera settings.

**Silent, vibration-free shooting at up to 10 fps** with AF/AE tracking and no cropping is available when shooting in silent mode. Silent shooting is critical for wildlife photography where even the slightest shutter noise can mean missing the moment.

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Efficient focus control

AF-ON button

Press the AF-ON button to activate autofocus when shooting stills or movies. This makes it possible to release the shutter instantly to capture fleeting moments without having to go through the normal half-press focus sequence.

Multi-selector

The multi-selector provides a fast, efficient way to shift focus points. Simply press the up, down, left, or right button when using the Zone, Flexible Spot, or Expand Flexible Spot focus area mode.

3.0 type 1.44 million dot tilting LCD monitor

This 3.0 type LCD monitor with 1.44 million dots features high resolution for detailed viewing. WhiteMagic™ technology is included to ensure that LCD viewing is bright and clear even in outdoor conditions. The monitor tilts upwards by a maximum of 107°, and downwards by a maximum of 41° for flexible hold and framing.

Touch pad focus point control

The monitor touchpad function allows the focus frame to be dragged to any desired point with a fingertip while viewing through the viewfinder. Relative and absolute modes are available, and nine area patterns provide easy operation when viewing with either eye, and when positioning with either hand.

Customizable Functions for Smooth Focus Operation

Switch Vertical and Horizontal AF Area

It is possible to use separate or identical focus areas and points for horizontal and vertical camera orientations, reducing the need to readjust focus when shooting subjects that require frequent camera orientation changes.

AF tracking sensitivity

The sensitivity with which autofocus will follow subjects that move outside the focus area can be adjusted in 5 steps when shooting stills. Higher sensitivity is best for subjects at varying distances, while lower sensitivities can keep focus on a subject that is briefly obscured by other objects.

AF Area Registration

Frequently used focus point settings can be memorized and instantly recalled via custom button assignments. Focus area mode settings can also be memorized and recalled as required for fast, convenient operation.

Recall Custom Setting During Hold

Memorized settings (exposure, focus settings, drive mode, etc.) can be assigned to custom buttons for temporary recall while the button is held, providing a convenient way to quickly make temporary setting changes.

More continuous shooting support

Up to 76* images per burst

A larger buffer memory, increased overall system speed, UHS-II support, and other refinements allow up to 76* JPEG or compressed RAW images, or up to 28* uncompressed RAW images to be captured in one continuous burst.

* "Hi+” continuous mode with UHS-II compatible SDXC memory card. Sony test conditions.

Improved operability while writing to memory card

The Fn menu can be accessed and edited immediately after continuous shooting while data writing is in progress*, as can the menus and parameters. It is also possible to immediately access the playback display, with the number of still images remaining to be written shown during playback.

* Not all menu parameters can be edited while data is being written to the memory card.

More continuous shooting support

Dual media slots, UHS-II support

Separate media slots for SD card (UHS-II compatible) and SD/MS card allow data to be simultaneously or sequentially recorded to two cards (Auto Switch Media), or separate cards can be assigned to save RAW and JPEG files, or stills and movies. Data can also be copied between media cards.

Professiona stamina

Battery capacity increased by approximately 2.2 times

A new NP-FZ100 battery provides approximately 2.2 times the capacity of the NP-FW50. The optional VG-C3EM Vertical Grip holds two batteries, or an optional Multi Battery Adaptor (NPA-MQZ1K) can hold up to four Z batteries for even further extended recording time.

USB power

USB Type-C™ and Multi/Micro USB connectors allow external mobile batteries to power the camera for extended recording time. The Multi/Micro USB connector can be used with a remote control unit or other accessory while the USB Type-C™ connector is used for power supply or PC tethering.

Display continuous shooting group

Images shot in continuous mode can be reviewed as groups, and the play index display has been significantly improved. Continuous groups can be deleted or protected in one quick operation to save time on location.

Rating and protect functions facilitate on-location sorting

Ratings of from 1 to 5 stars can be applied to still images right from the camera controls. The rating and protect functions can be set via assigned custom buttons while viewing the review playback display on location or while traveling to save time.

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Innovations in Eye AF technology make the delicate task of photographing people smoother and easier, while 5-axis image stabilization boosts mobility and flexibility for significantly enhanced portraiture potential.

**Automatic, instant eye focus**

**Doubled Eye AF performance**

Eye AF automatically detects and focuses on the subject’s eye. Notable improvements in detection precision and speed in the α7R III result in approximately doubled* tracking performance when shooting moving portrait subjects. Eye focus is fast and accurate even if the subject is distant, looking away from the camera, backlit, or in other situations that would challenge previous systems. Eye AF is also supported for A-mount lenses mounted via an adaptor.**

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**In-body image stabilization enhances shooting freedom**

A new precision stabilization unit and gyro sensors work with optimized image stabilization algorithms to achieve a 5.5-step* shutter speed advantage. Camera shake is effectively compensated for in 5 axes, and stabilization is effective for movies as well as stills. The viewfinder image is stabilized too, making it easier to frame and focus. Effective stabilization is achieved with a wide range of lenses, including non-stabilized E-mount lenses, and A-mount lenses mounted via an adaptor.

* CIPA standards. Pitch/yaw shake only. Planar T* FE 50mm F1.4 ZA lens. Long exposure NR off.

** 5-axis optical in-body image stabilization for a 5.5-step* exposure advantage

- Pitch and yaw compensation
- Horizontal and vertical shift compensation
- Roll compensation

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**New portraiture potential**

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Smooth studio workflow
Features and operation related to PC remote shooting and flash lighting have been updated in many important ways, complementing improved response and higher efficiency for professional studio applications.

Speed and flexibility for tethered shooting
USB 3.1 Gen 1 compatible USB Type-C™ connector for fast transfer

A USB Type-C™ connector that supports fast USB 3.1 Gen 1 data transfer makes high-speed PC Remote data transfer available for smooth handling of large RAW image files. Quickly review images on a PC, and continue shooting without having to wait for slow file transfers.

Professional lighting capability
Improved flash compatibility

A standard sync terminal is provided for convenient synchronization with studio flash units and other external lighting equipment. Release time lag has been minimized for smooth, responsive flash photography. Continuous flash shooting at up to 10 fps* offers advanced capture capability. Slow sync and rear curtain sync** can be selected when shooting with wireless off-camera flash for even further enhanced versatility.

Image storage selection for PC remote

When the camera is tethered to a computer, still images can be stored in the camera as well as on the computer so they can be reviewed without having to leave the camera position. And when shooting RAW & JPEG it is possible to transfer only the JPEG files to the computer to reduce data volume and allow transferred images to be reviewed immediately.

Powerful software support

New Sony imaging software suite*

A new suite of imaging apps from Sony provides top-quality RAW development, convenient PC tethering, and efficient viewing/management. Live viewing on the computer screen with semi-transparent reference overlay capability is available during tethered shooting. Focus points can also be set from the computer. The new Pixel Shift Multi Shooting feature can also be used while tethered, and the pixel-shifted images can be immediately composited and viewed.

Capture One Express (for Sony)*

Capture One Express (for Sony) is free software for precise, high-quality finishing of RAW data.

Capture One Pro (for Sony)*

Capture One Pro (for Sony) can be purchased for local adjustment and PC Remote compatibility.

* Refer to the download page for details: http://www.sony.net/disoft/d/

* Please contact Phase One regarding all inquiries as to usage and support including functional compatibility of Capture One Express (for Sony) and Capture One Pro (for Sony).

FE 85mm F1.4 GM (SEL85F14GM), 1/250 sec., F8, ISO 100, Profoto Pro-10 flash units

* Maximum continuous shooting speed will depend on the flash and shooting settings used.
** Rear curtain sync is not available with optical wireless flash units.
**Lifelike detail, texture, color, and atmosphere**

**Pixel Shift Multi Shooting : Superior resolution from 42.4 megapixel RGB information**

This new feature takes advantage of the advanced in-body image stabilization system control capability available in the α7R III, precisely shifting the sensor in 1-pixel increments to capture four pixel-shifted images containing a total of approximately 169.6 million pixels* that are later composited using a computer to achieve overwhelming subjective resolution in a single image. Still images are captured with true-to-life details, texture, and color, with minimal moiré and color artifacts.

Even the atmosphere of the subject and surroundings are reproduced with breathtaking fidelity, making Pixel Shift Multi Shooting an ideal technology for archival images of art, architecture, and more.

* Image size after compositing is approx. 42.4 million (7952 x 5304) pixels.

Notes: A dedicated software application is required for compositing. Image compositing may not be successful if camera or subject movement causes blur. The use of a tripod is recommended, as is the use of PC tethered control or a remote commander when PC tethered control is not being used. Uncompressed RAW and silent mode are automatically selected for Pixel Shift Multi shooting. Some restrictions apply to flash and other devices. Refer to the Sony support site for details.

http://www.sony.net/psms/

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R: 10.5M
G: 21M
B: 10.5M

1) RGB color information acquired at a 1:2:1 ratio.
2) Demosaicing provides the remaining color information.

1) The image sensor is moved in 1-pixel increments while shooting four sequential frames.
2) Each pixel represents R, G, and B information.
Breathtaking movie reality

5K (15-megapixel) oversampling results in 4K movies with an overwhelming sense of depth and detail, while a new HLG picture profile supports high-quality HDR content creation. High resolution and wide dynamic range come together with stunning realism.

High-resolution, wide-dynamic-range 4K

4K movies** from 5K (15-megapixel) data

Full pixel readout in the Super 35 mode, without the need for pixel binning, makes it possible to condense 5K (15-megapixel) data into high-resolution, extraordinarily beautiful 4K movies with minimal moiré and jaggies. Advanced image processing also allows full-frame 4K movie recording with dramatically improved image quality at mid to high sensitivities. Super 35mm or full-frame recording can be selected as required.

Wide dynamic range

Sony’s S-Log gamma curve provides extra flexibility to achieve a “look” that best serves your artistic vision during post-production color grading, while a newly added HLG (Hybrid Log-Gamma)* picture profile supports instant HDR production without the need for color grading. Extra care has been taken to ensure that a wide range of HDR content creation requirements are fully supported.

Comprehensive moviemaking control

Improved Fast Hybrid AF for movies

Fast Hybrid AF performance during movie recording has been refined, providing a wide AF area that is similar to that provided for still images. AF now accurately locks onto movie subjects over a wider area.

Slow and quick motion

Frame rates from 1 fps to 120 fps can be selected in eight steps for up to 60x quick motion and 5x slow motion while recording with full-HD quality.

Enhanced Zebra function

This function simplifies exposure monitoring, especially when shooting with Log gamma. A new minimum brightness level setting helps to avoid blown out highlights.

Proxy recording

4K movies and lower-resolution proxy movies can be recorded simultaneously. The smaller proxy files are ideal for quick previewing or pre-editing that can reduce the time required for final 4K editing.

Other movie features

Picture profiles, Clean HDMI, Time Code/User Bit, REC control, Gamma Display Assist, and other details provide comprehensive support for advanced video workflows.
Other features that enhance the α7R III experience

A well thought-out selection of customizable functions, detailed AE and AWB settings, plus image management and sharing features provide handy solutions to a wide range of professional needs.

Customizable functions

- **My Menu & new menu interface**
  A new My Menu feature allows up to 30 items to be registered for instant recall. Registered items can be arranged in any convenient order, and unused items can be erased as required. The primary menus have also been reorganized for smoother search and operation.

- **Fast parameter editing via Fn menu**
  The Fn button can be used to quickly display and select from up to 12 freely assignable functions while shooting. Assign functions you use frequently for fast, efficient selection and operation.

- **Custom button assignments**
  Custom button assignments allow the camera interface to be customized for individual shooting preferences. Eleven buttons can be reassigned to select functions you choose, and separate functions can be assigned for the still, movie, and playback modes.

- **Anti-flicker shooting**
  Flicker from fluorescent lights and other artificial lighting can ruin still images if it and the shutter timing are out of sync. The α7R III automatically detects flicker and adjusts shutter timing to eliminate its effects. *Only SDI and HD SDI flicker is detected. Continuous shooting speed may decrease. Anti-flicker shooting is not available during silent shooting, BULB exposure, or movie recording.*

- **Instant mode dial recall of memorized camera setups**
  Camera setups, including modes and camera settings, can be registered in memory for instant recall via the mode dial: up to three in the camera, and four on a memory card. Memory card setups can also be loaded into a separate α7R III body.

- **ISO AUTO Min. shutter speed**
  This function sets the shutter speed above which ISO sensitivity will begin to change when the camera mode is set to “P” or “A” and “ISO AUTO” is selected. It can be used to minimize subject blur when shooting moving subjects.

- **Flexible Auto Exposure and Auto White Balance**
  1200-segment live view exposure analysis enhances stability.

- **Screen Average mode**
  When the Focus Area parameter is set to Flexible Spot or Expand Flexible Spot the metering spot location can be linked to the focus area so that the optimum metering point is maintained automatically. Two spot sizes are available to match a wide range of subjects.

- **Data management and sharing**
  **Location Information Link via Bluetooth**
  After the camera has been paired to the PlayMemories Mobile™ app installed on a compatible mobile phone or tablet device, it can acquire location data from the mobile device and record data with still images or movies. The PlayMemories Home™ application can then be used on a personal computer to organize images imported into the computer on a map.

- **Wi-Fi / NFC™ / QR code**
  With one-touch remote, a smartphone or tablet functions as a viewfinder/remote control. One-touch sharing transfers photos/videos to the device. Install the PlayMemories Mobile app on an NFC-enabled Android device via Wi-Fi, then touch the device to the camera to connect. The camera now features QR code compatibility.

- **FtP file transfer via Wi-Fi**
  This function allows convenient Wi-Fi transfer of still image files selected via the menu display to a specified remote FTP server. FTPS (File Transfer Protocol over SSL/TLS) is supported, allowing SSL or TLS encrypted data transfer for maximum security.

- **File Names and Copyright**
  The first three characters of still image file names can now be edited for easier identification, and copyright information can be automatically embedded in still image files. Recording the photographer’s name and author’s name along with images provides basic copyright protection.

### Flexible Auto Exposure and Auto White Balance

#### 1200-segment live view exposure analysis enhances stability.

The live view image is divided into 1,200 segments for detailed analysis of subject color and lighting. The use of focus information to ensure consistent AE control is another innovation that can reduce variations in image brightness in varying situations.

#### Additional modes expand metering versatility.

A new Highlight mode detects the brightest area in the frame to avoid blown highlights, and an Entire Screen Average mode can provide stable auto exposure through composition changes.

#### Versatile spot metering.

When the Focus Area parameter is set to Flexible Spot or Expand Flexible Spot the metering spot location can be linked to the focus area so that the optimum metering point is maintained automatically. Two spot sizes are available to match a wide range of subjects.

- **Use the latest version of PlayMemories Mobile.**

- **Bl" or "D" terminal devices (at the date of release):**

  - Bluetooth connectivity available with the following terminal devices (at the date of release): Android (Android 5.0 or later), Bluetooth 4.0 or later
  - iPhone/iPad (iPhone 4S or later, 3rd generation iPad)

  Please refer to http://www.sony.net/pmm/btg/ for more information.

- **SSL or TLS encrypted data transfer**
  * PlayMemories Mobile must be installed on the smartphone or tablet device.

- **Wi-Fi and NFC compatibility**
  * PlayMemories Mobile must be installed on the smartphone or tablet device.
Essential apps

PlayMemories Home™

It’s easy to install this image management software onto a Windows or Mac computer, then use it for easy viewing, editing and printing. You can also upload and share content via network services.

PlayMemories Mobile™

The PlayMemories Mobile app can be installed on a compatible smartphone or tablet to provide remote camera control and easy image transfer. The new PlayMemories Mobile version provides updated remote camera control, with the same operability as available on the camera itself.

Number of recordable frames for single media

<table>
<thead>
<tr>
<th>Memory card</th>
<th>Standard</th>
<th>Fine</th>
<th>Raw</th>
<th>RAW &amp; JPEG</th>
<th>RAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>8GB</td>
<td>770</td>
<td>520</td>
<td>270</td>
<td>190</td>
<td>75</td>
</tr>
<tr>
<td>32GB</td>
<td>3,160</td>
<td>2,060</td>
<td>1,050</td>
<td>700</td>
<td>355</td>
</tr>
<tr>
<td>64GB</td>
<td>6,200</td>
<td>4,200</td>
<td>2,070</td>
<td>1,050</td>
<td>700</td>
</tr>
<tr>
<td>256GB</td>
<td>24,500</td>
<td>16,500</td>
<td>8,700</td>
<td>4,200</td>
<td>2,860</td>
</tr>
</tbody>
</table>

Movie recording time for single media

<table>
<thead>
<tr>
<th>Format</th>
<th>Movie recording time for single media</th>
</tr>
</thead>
<tbody>
<tr>
<td>XAVC S 4K</td>
<td>8GB</td>
</tr>
<tr>
<td>30p 17M/50p 17M</td>
<td>0:55:00</td>
</tr>
<tr>
<td>24p 50M</td>
<td>0:15:00</td>
</tr>
<tr>
<td>XAVC S HD</td>
<td>8GB</td>
</tr>
<tr>
<td>30p 16M/25p 16M</td>
<td>0:50:00</td>
</tr>
<tr>
<td>30p 50M/25p 50M</td>
<td>0:15:00</td>
</tr>
</tbody>
</table>

Recommended memory cards for movie recording in AVCHD/MP4 formats:

SDXC memory card of Class 10 or higher
SDHC memory card/SDXC memory card(Class 4 or more)
Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, SD memory card/SDXC memory card(Class 10 or higher)

The numbers in the table show approximate maximum recordable time obtained by formatting all memory cards.

AVCHD movies are automatically divided into separate files up to a maximum of 2GB each.
**α7R II / α7R III comparison**

<table>
<thead>
<tr>
<th>Feature</th>
<th>α7R II</th>
<th>α7R III</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image quality Standard ISO</td>
<td>up to ISO 25600</td>
<td>up to ISO 32000</td>
<td>+1/3 stop</td>
</tr>
<tr>
<td>Low noise</td>
<td></td>
<td></td>
<td>Up to 1 stop improvement for mid sensitivity.</td>
</tr>
<tr>
<td>Gradation</td>
<td></td>
<td></td>
<td>Up to 15 stops low-sensitivity dynamic range. 14-bit RAW support for continuous and silent shooting.</td>
</tr>
<tr>
<td>Sharpness, color Pixel Shift Multi Shooting</td>
<td></td>
<td></td>
<td>Large improvement.</td>
</tr>
<tr>
<td>Speed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous shooting</td>
<td>5 fps (approx.)</td>
<td>10 fps (approx.)</td>
<td>Speed doubled (approx.)</td>
</tr>
<tr>
<td>Continuous shooting [Silent]</td>
<td>Single only</td>
<td>10 fps (approx.)</td>
<td>Continuous supported</td>
</tr>
<tr>
<td>No. of recordable frames</td>
<td>23 compressed RAW images</td>
<td>76 compressed RAW images</td>
<td>3.3x improvement</td>
</tr>
<tr>
<td>Basic AF performance</td>
<td></td>
<td></td>
<td>Up to 2x** faster in low light, approx. 2x** faster tracking</td>
</tr>
<tr>
<td>Lower AF detection brightness limit</td>
<td>EV-2</td>
<td>EV-3</td>
<td>1 stop increase.</td>
</tr>
<tr>
<td>Eye AF</td>
<td></td>
<td></td>
<td>Large improvement in detection precision, speed. Approx. 2x** faster tracking. A-mount lens support.</td>
</tr>
<tr>
<td>Operability &amp; Reliability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-axis image stabilization</td>
<td>4.5 steps</td>
<td>5.5 steps</td>
<td>+1 stop</td>
</tr>
<tr>
<td>EVF</td>
<td>XGA OLED Tru-Finder</td>
<td>Quad-VGA OLED Tru-Finder</td>
<td>1.5x resolution, 2x luminance (approx.). 100 fps*** finder frame rate support, 30% faster startup. High quality mode.</td>
</tr>
<tr>
<td>Battery</td>
<td>NP-FW50</td>
<td>NP-FZ100</td>
<td>2.2x capacity</td>
</tr>
<tr>
<td>Media</td>
<td></td>
<td></td>
<td>Higher write speed, simultaneous write, sequential write (Auto Switch Media).</td>
</tr>
<tr>
<td>USB connector for PC tethering</td>
<td>USB 2.0 (Multi/ Micro USB)</td>
<td>USB 3.1 Gen 1 (USB Type-C™)</td>
<td>Faster transfer speed</td>
</tr>
<tr>
<td>Controls</td>
<td></td>
<td></td>
<td>AF-on, Multi Selector, Touch Panel.</td>
</tr>
<tr>
<td>Movies</td>
<td></td>
<td></td>
<td>Improved quality in full-frame 4K high-sensitivity movies, improved movie AF, Hybrid Log-Gamma, S-Log3, Slow&amp;Quick motion, Photo Capture, Proxy Recording.</td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td>Sync terminal, Anti-flicker shooting, improved peaking, Focus magnification with AF support. My Menu, Rating, Display continuous shooting group, FTP over Wi-Fi, and more.</td>
</tr>
</tbody>
</table>

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**Fast, expressive α lenses**

- **E-mount G Master™**
  - FE 85mm F1.4 GM (SEL85F14GM)
  - FE 100mm F2.8 STF OSS GM (SEL100F28GM)
  - FE 100-400mm F4.5-5.6 GM OSS (SEL100400GM)
  - 1.4x Teleconverter Lens (SEL14TC)
  - 2x Teleconverter Lens (SEL20TC)

- **E-mount G Lens™**
  - FE 12-24mm F4 G (SEL1224G)
  - FE 24-105mm F4 G OSS (SEL24105G)
  - FE PZ 28-135mm F4 G OSS (SELP28135G)
  - FE 70-200mm F4 G OSS (SEL70200G)

- **E-mount ZEISS®**
  - Vario-Tessar T* FE 16-35mm F4 ZA OSS (SEL1635Z)
  - Vario-Tessar T* FE 24-70mm F4 ZA OSS (SEL2470Z)
  - Distagon T* FE 35mm F1.4 ZA (SEL35F14Z)
  - Sonnar T* FE 35mm F2.8 ZA (SEL35F28Z)
  - Planar T* FE 50mm F1.4 ZA (SEL50F14Z)
  - Sonnar T* FE 55mm F1.8 ZA (SEL55F18Z)

**Explore higher perspectives**

See the world from more creative perspectives with the full range of premium Sony A-mount lenses. Fish eye, wide-angle, super telephoto, macro, and legendary ZEISS® lenses offer the ultimate in imaging expression. An optional LA-EA3 or LA-EA4 Mount Adaptor is required to mount A-mount lenses on the α7R III.
Options for expanded photographic capability

- Rechargeable Battery Pack NP-FZ100
  - Twice the capacity of the NP-FW50 for long life.

- Battery Charger BC-QZ1
  - Fully charges one NP-FZ100 battery in approx. 132 min.
  - LED indicator shows charge status.

- Grip Extension GP-X1EM
  - Sits easily into place with a secure locking mechanism.

- Circular PL Filters
  - Ideal for high-speed shooting.

- CF Express Cards (CECF-64X/CECF-128X) / SD Cards (UHS-II)
  - Designed for high-speed continuous shooting, 4K recording, and 4K S-Log recording.

- Rechargeable Battery Pack HVL-F45RM
  - Compact and lightweight clip-on flash with high GN45*1 output.
  - Functions as a wireless radio commander or receiver in multi-flash setups.

- Multi-Interface Shoe
  - Allows sequential use of up to four NP-FZ100 batteries.

- NPA-MQZ1K
  - Provides sequential power supply from four NP-FZ100 batteries.

- NP-FW50*2
  - It includes two USB ports to charge the batteries simultaneously.

- Multi Battery Adaptor Kit BC-QZ1
  - Supports the simultaneous use of up to four NP-FZ100 batteries.

- Vertical Grip VG-C3EM
  - Provides space for two NP-FZ100 batteries for longer operation and support.

- Multi Selector
  - Including a duplicate Multi Selector.

- Moisture Resistant*2 for maximum reliability.

- Hard Glass: Hardness rating (Mohs) 9H, shatterproof glass provides reliable screen protection.

- Customizable keys give you direct access to the functions and a Quick Navi interface for easy, intuitive operation.

- The HVL-F45RM is compact and convenient for use in the field or studio, delivering up to Guide Number 45*1 power with less than a 2.5-second*2 recycle time. It can be used as a wireless radio commander or receiver, and when used as a commander, it can connect up to 5 compatible AF cameras. Flash units or receivers can be grouped in up to 5 groups*3. Radio wireless works at distances up to 30 meters*4, providing reliable operation without pairing errors.

- The HVL-F45RM also provides high-visibility tabbed menus and a Quick Flexa interface for easy, intuitive operation. Customizable keys give you direct access to the functions you use the most. The flash head rotates and tilts for flexible lighting in a wide range of situations, and the overall design is dust and moisture resistant*2 for high reliability.

- Handgrip or shoulder strap is available to provide the ideal shooting grip for your shooting style.

- Reference measurement system chart
  - For the whole of Sony products.