SONY

α9 α9II

Two paths to the top

Sony's α9 revolutionized full-frame mirrorless photography by doing away with mechanical barriers that can interrupt the flow, giving creators unrestricted access to the true potential of digital imaging. The α9 II offers the same imaging performance, with added refinements that make it possible to take maximum advantage of the camera's blazing speed in professional workflows.

The α9 and α9 II. Both will take you directly to the top level of today's full-frame digital imaging technology. You just need to choose the most suitable path to your goal.

α9II FE 400mm F2.8 GM OSS (SEL400F28GM), 1/1250 sec., F3.2, ISO 1250

α9II FE 400mm F2.8 GM OSS (SEL400F28GM), 1/1250 sec., F3.2, ISO 1250

α9 II FE 400mm F2.8 GM OSS (SEL400F28GM), 1/3200 sec., F2.8, ISO 100

α9 II FE 400mm F2.8 GM OSS (SEL400F28GM), 1/8000 sec., F2.8, ISO 100

α9 FE 600mm F4 GM OSS (SEL600F40GM), 1/1600 sec., F8, ISO 3200, with 2x Teleconverter lens

α9 FE 600mm F4 GM OSS (SEL600F40GM), 1/2000 sec., F5.6, ISO 1600, with 1.4x Teleconverter lens

α9

α9 II

Feature comparison

		α9 Software Ver. 6.0	α9 II
Speed	Bursts with electronic shutter	• Hi: max. 20 fps[*1] • Mid: max. 10fps • Lo: max. 5 fps	•Hi: max. 20 fps[*1] • Mid: max. 10fps • Lo: max. 5 fps
	Bursts with mechanical shutter	• Hi: max. 5 fps • Mid: max. 5fps • Lo: max. 2.5 fps	•Hi: max. **10** fps • Mid: max. **8** fps • Lo: max. **3** fps
	Anti-flicker shooting	–	**Yes**[*2]
	Real-time Tracking	Yes	Yes
	Real-time Eye AF	• Stills: Human (Right/Left Eye Select) /Animal • Movies: –	• Stills: Human (Right/Left Eye Select) / Animal • **Movies: Human (Right/Left Eye Select)**
	5-axis image stabilization effect[*3]	5.0 steps	**5.5** steps
Communication	LAN Terminal	• 100BASE-TX • 10BASE-T	• **1000BASE-T** • 100BASE-TX • 10BASE-T
	Built-in Wireless LAN (Wi-Fi®)	IEEE 802.11b/g/n (2.4GHz band)	**IEEE 802.11a/b/g/n/ac** (2.4GHz band/**5GHz band**)[*4]
	USB	• Multi/Micro USB Terminal (USB 2.0)	• Multi/Micro USB Terminal (USB 2.0) • **USB Type-C™ Terminal (USB 3.2 Gen 1)**
	Related functions	• Background transfer to FTP server • Original file size saved to computer during PC Remote • PC remote shooting via USB and wired LAN	• Background transfer to FTP server • Original or 2MP file size saved to computer during PC Remote • PC remote shooting via USB, **Wi-Fi®** and wired LAN • **Voice Memo** • **Save/Load FTP Settings function** • **Improved response**
Reliability		• Slot 1: UHS-I/II SD card, Slot 2: UHS-I SD card /Memory Stick Duo compatible	• **Slot 1 & 2: UHS-II SD card compatible** • **Refined grip, buttons/controls** • **Improved dust-and moisture-proof performance**[*5]
Operability			• **Save/Load Settings function** • **Focus frame positioning while the shutter button is half-pressed** • **10/100-image review jump during playback** • **New 4:3 aspect ratio (stills)** • **Digital Audio Interface support** • **Extra Creative Style control (sharpness up to +/-5)** ...and more

*1 At shutter speeds higher than 1/125 sec. In AF-C mode the maximum continuous frame rate will depend on the shooting mode and lens used.
*2 Mechanical shutter. Only 100 Hz and 120 Hz flicker is detected. Continuous shoot-ing speed may decrease. Anti-flicker shooting is not available during BULB exposure, or movie recording.
3 CIPA standards. Pitch/yaw shake only. Planar T FE 50mm F1.4 ZA lens. Long exposure NR off.
*4 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4 GHz) only. 5GHz communication may be restricted in some countries and regions.
*5 Not guaranteed to be 100% dust and moisture proof

Exmor R CMOS Sensor | BIONZ X | 4D FOCUS | Quad-VGA OLED Tru-Finder | 4K

No.1 Image Sensor
No.1 image sensor manufacturer for digital cameras and video recorders. Based on Sony research – April 2018 to March 2019 (Over 50% market share).

No.1 Electronic Viewfinder
No.1 electronic viewfinder (EVF) device manufacturer for digital still cameras which employ EVF. Based on Sony research - April 2018 to March 2019 (over 50% market share).

Expanding digital horizons

* α9 and α9 II, except where noted

The revolutionary image sensor and high-speed processing of the α9 and α9 II reach performance levels far beyond the incremental improvements gained through decades of mechanical refinement. There is no viewfinder blackout. Continuous shooting speeds exceed those possible with mechanical shutters. Higher shutter speeds are available, and all without noise or vibration. The ability to keep an eye on moving subjects at all times leads to faultless AF and AE tracking, and the photographer's view is consistently up-to-date with an absolute minimum of lag.

Sony presents a new class of digital imaging

Traditional SLR goals

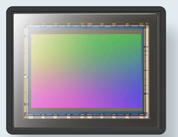
Reduced viewfinder blackout time

Fast, low-vibration, quiet mechanical shutters

Motion prediction for improved subject tracking AF

A direct viewfinder image of the subject

35mm full-frame stacked CMOS sensor with integral memory



Exmor RS CMOS Sensor

α9 α9 II achievements

- **No viewfinder blackout**
- **Fast, vibration-free, silent electronic shutter**
- **Continuous tracking of moving subjects for foolproof AF**
- **A direct viewfinder image of the subject and final image**

Built for speed

* α9 and α9 II, except where noted.

Fast full-frame stacked CMOS image sensor with integral memory

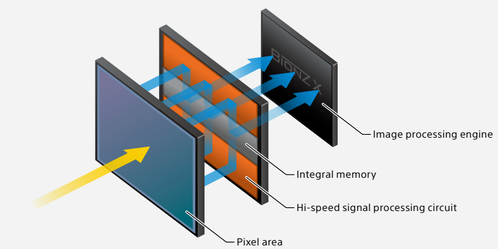
Exmor RS CMOS Sensor

The α9 and α9 II employ an Exmor RS™ image sensor with a stacked structure designed specifically for high speed. Dramatically increased readout speed easily overcomes the limitations of conventional camera mechanisms. The circuit layer is separate from the pixel layer so that the scale and capabilities of the integrated high-speed signal processing circuitry can be significantly enhanced, and an integral memory is implemented to temporarily store the large volume of data produced.

BIONZ X™ supports speedy performance

BIONZ X

An enhanced BIONZ X image-processing engine works with the fast image sensor to achieve maximum speed and performance. The BIONZ X processor and a front-end LSI deliver higher performance in a number of critical areas including autofocus speed and precision, face detection speed and precision, and EVF display response.



Beyond the mechanical speed barrier

* α9 and α9 II, except where noted.

20 fps

Continuous shooting at up to 20 fps*1

Shoot continuous bursts at up to 20 frames per second*1 with uninterrupted viewing and AF/AE tracking. A large buffer memory makes it possible to capture up to 239 compressed RAW images*2 or 361 JPEG images*3*4 in one continuous burst. The truly important moments will never be missed.

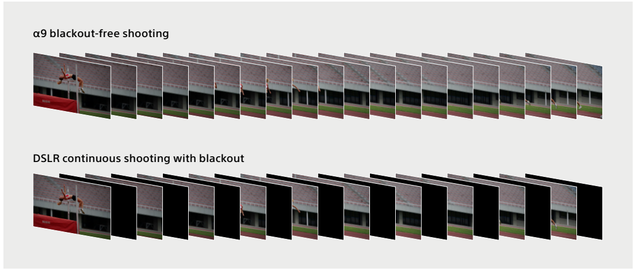
*1 "Hi" continuous shooting mode. At shutter speeds higher than 1/125 sec. In AF-C mode the maximum continuous frame rate will depend on the shooting mode and lens used. Visit Sony's support web page for lens compatibility information.
*2 "Hi" continuous shooting mode, compressed RAW, UHS-II memory card. Sony tests.
*3 "Hi" continuous shooting mode, UHS-II memory card. Sony tests.
*4 Up to 241 compressed RAW images or 362 JPEG images in the α9.

0 blackout

Blackout-free shooting*

Ever since the film era, camera mechanisms have been designed with shutter and mirror mechanisms that interrupt the incoming light when creating a photographic image. It is time for a change. The electronic viewfinder offers a liberating experience for all types of image making with blackout-free shooting. You have a continuous, uninterrupted view of the subject with a 60 fps live-view refresh rate and minimal display lag while shooting continuous bursts.

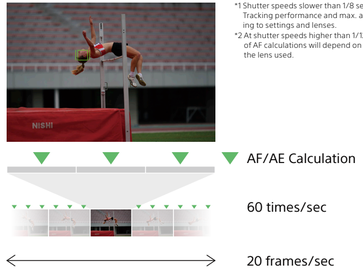
* Display updating will be slower at slow shutter speeds.



60 times per second

Continuous AF/AE calculation

The α9 and α9 II never rest. They employ an ingenious blend of mirrorless construction and new speed enhancing technologies to allow autofocus and auto-exposure calculations to continue even between the frames. Unprecedented sensor readout speed means that subject motion and exposure changes can be tracked without interruption during continuous shooting,*1 regardless of release timing. Up to 60 calculations are made per second,*2 providing accurate tracking of complex, erratic subject motion and brightness changes.



*1 Shutter speeds slower than 1/8 sec. cannot be selected. Tracking performance and max. aperture differs according to settings and lenses.
*2 At shutter speeds higher than 1/125 sec. The number of AF calculations will depend on camera settings and the lens used.

0 decibels

Silent, vibration-free electronic shutter

The evolved electronic shutter in the α9 and α9 II operates silently, without mechanical noise that can be disruptive when shooting sports or events in a quiet environment. The fact that the electronic shutter is vibration-free also minimizes the likelihood of vibration-induced blur, further contributing to superior resolution and image quality. What's more, its maximum 1/32000 sec.*1 speed exceeds the limits of mechanical systems for vastly expanded exposure freedom as well as the ability to maintain shallow depth of field in bright conditions without having to use ND filters. The high speed of the electronic shutter also helps to minimize distortion*2 of moving subjects.

*1 1/32000 shutter speed is available only in the S and M modes. The highest shutter speed in all other modes is 1/16000.
*2 Slight distortion may occur in some shooting situations. Refer to the support page for details.

Note: This camera is equipped with electronic and mechanical shutters. The features described on this page are primarily related to electronic shutter operation.

Fast, dependable focus in any situation

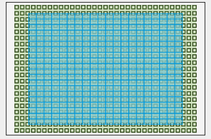
* α9 and α9 II, except where noted.

4D FOCUS

Wide

693 point full-area phase-detection AF

693 phase-detection autofocus points in a high-density focal plane phase-detection AF system cover approximately 93% of the image area. Increased phase-detection AF image coverage and density ensures improved precision and unfailing focus in scenes where focus would be difficult to achieve with smaller coverage.

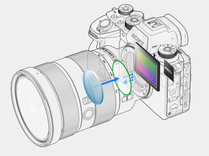


Phase-detection AF coverage (693 points)
Contrast-detection AF coverage (425 points)

Fast

Fast Hybrid AF System

Fast phase-detection autofocus that offers excellent tracking works with high-precision contrast autofocus to achieve significantly improved Fast Hybrid AF System performance. The whole system has been optimized for speed, making it easier than ever to capture the moment. Even fast-moving subjects can be captured with confidence.



Steadfast

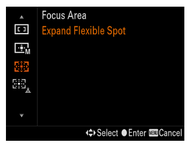
Up to 60 AF calculations per second*

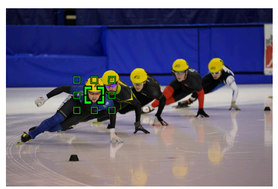
An uninterrupted stream of AF calculations maximizes AF performance, precisely and reliably locking onto and tracking moving subjects in a wide range of photographic situations. AF calculation continues even during electronic shutter release so that complex subject motion can be tracked and sudden movements can be predicted with greater precision than ever before. New performance-tuned AF algorithms in the α9 II achieve even more reliable tracking of fast, erratically moving subjects that can be difficult to follow.

* At shutter speeds of 1/125 sec. or higher. The number of AF calculations will depend on the lens used.

Flexible Focus Area Modes

The α9 and α9 II feature a versatile selection of focus area modes that provide optimum AF operation for a wide range of subjects and shooting situations. There is Wide, Zone, Center, Flexible Spot (with S, M, and L variations), Expand Flexible Spot, and Tracking for all of the above.





Expand Flexible Spot

Extended focus control and precision

* α9 and α9 II, except where noted.

Reliable low-light AF

Low light won't prevent the α9 or α9 II from focusing accurately. The image sensor's outstanding sensitivity leads to reliable detection and high AF precision down to light levels as low as EV-3* at the equivalent of ISO 100 with an F2.0 lens.

* AF-S mode.

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

Switch Vertical and Horizontal AF Area

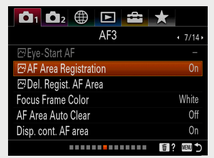
Separate or identical focus areas and points can be used for horizontal and vertical camera orientations. The ability to use separate focus areas and points reduces the need to readjust focus when shooting portraits or any subject that requires frequent camera orientation changes.

Focus area circulation

A setting allows the focus area to be circulated through the upper, lower, left, and right edges of the frame. This makes it easy to select an appropriate focus area for sports or other situations where the subject frequently moves from one edge to the other.

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.



Focus frame color & positioning α9 II

The α9 II focus frame color can be set to white or red, improving visibility in situations where subject and focus frame color contrast is low. It is also possible to move and position the focus frame as required while the shutter button is half-pressed, making it easier to capture significant moments when shooting sports or other situations where subject motion is difficult to predict.*

* The α9 focus frame color can be set to grey, white, or red. Only the α9 II allows focus frame positioning while the shutter button is half-pressed.

Advanced AF enables all-new shooting styles

* α9 and α9 II, except where noted.

Real-time Tracking

Real-time Tracking is a state-of-the-art feature that employs artificial intelligence to tenaciously track moving subjects when shooting stills or movies. Accurate focus is maintained automatically while the shutter button is half-pressed. The subject to be tracked can also be specified by touching it on the monitor when the Touch Tracking function is engaged. An advanced subject recognition algorithm uses color, pattern (brightness), and subject distance (depth) data to process spatial information in real time. If the subject is a person, AI is used to detect and keep track of the subject's eye and face in real time for extremely high tracking precision. The focus area will seamlessly change between face and eye according to the condition of the subject.

FE 400mm F2.8 GM OSS (SEL400F28GM), 1/3200 sec., F2.8, ISO 100

Another evolution in Real-time Eye AF (Human)

Real-time Eye AF employs artificial intelligence to detect and process eye data in real time, and track the subject's eye with unprecedented precision. This function can be activated via an assigned custom key, or by simply pressing the AF-ON button or half-pressing the shutter button. When used with the Real-time Tracking function, tracking will continue even if the camera is temporarily unable to locate the subject's eye, so it is easier than ever to shoot dynamic portraits of moving subjects. Response when using a custom key assignment has been improved for even faster shooting.

Real-time Eye AF animal mode* tracks animal eyes

Advanced AI-based subject recognition technology now allows fast, precise, automatic detection and tracking of animal eyes.*1 This new capability can vastly increase success rates when photographing animals in a variety of settings or pets at home. Real-time Eye AF animal mode can be initiated either by pressing an assigned custom button or by half-pressing the shutter button.*2

*1 Accurate focus may not be achieved with certain subjects in certain situations.
*2 Stills only. "Animal" mode must be selected via the Face/Eye AF Settings menu before shooting

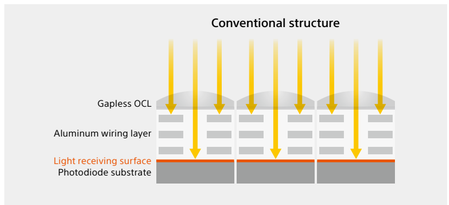
Captivating depth and detail

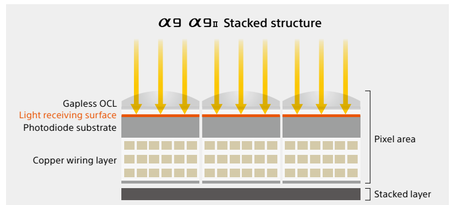
* α9 and α9 II, except where noted.

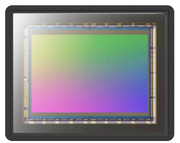
24.2 effective megapixel*1 full-frame Exmor RS CMOS image sensor offers more than just speed

The 24.2 effective megapixel full-frame CMOS image sensor used in the α9 and α9 II features a stacked structure and integral memory that contribute to outstanding speed. It also includes a number of features that contribute to stunning image quality. High sensitivity, a back-illuminated configuration, gapless on-chip lens architecture, and other Sony innovations deliver exquisite images in a wide range of photographic situations. The standard ISO range is ISO 100–51200, expandable to ISO 50–204800*2 with minimum noise.

*1 Approximate.
*2 Still images, mechanical shutter: ISO 100 – 51200 expandable to ISO 50–204800. Still images, electronic shutter: ISO 100 – 25600 expandable to ISO 50–25600. Movie recording: ISO 100 – 51200 expandable to ISO 100–102400.





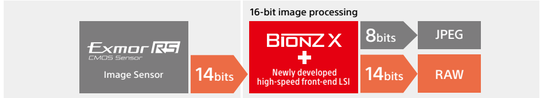


The latest BIONZ X image processing engine

An enhanced BIONZ X image-processing engine includes refined processing algorithms that reduce noise in the medium-to-high sensitivity range while enhancing subjective resolution and image quality. Advancements in Sony's detail reproduction technology improve detail rendering for lifelike reproduction of textures, while corresponding innovations in area-specific noise reduction maintain high resolution in dark areas and reduce noise in images shot at high ISO. Subtle changes in light are accurately reproduced for smoother, more natural tonal gradations, while AWB variations between continuous bursts are minimized for more consistent images.

14-bit RAW output

14-bit RAW format is supported, and is a good choice in situations where the sensor's wide dynamic range and fine gradation reproduction will benefit the images being captured. 14-bit RAW output is even available when shooting single images using the electronic shutter.



Refined for stress-free, stable shooting

* All images on these pages show the α9 II
* α9 and α9 II, except where noted.

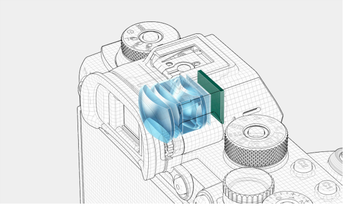
Outstanding viewing and capture quality

Quad-VGA OLED Tru-Finder with 120 fps* refresh rate

A high-luminance 3686K-dot (approx.) Quad-VGA OLED Tru-Finder reproduces the finest details, and incorporates advanced optics for 0.78x magnification with excellent corner-to-corner clarity. The legendary ZEISS T* coating greatly reduces reflections, further enhancing clarity. A 120 fps* frame rate provides a smooth viewfinder image with minimum display motion blur when shooting moving subjects, and high luminance keeps the brightness of the viewfinder image close to that of the actual scene for natural, seamless viewing. There's even a fluorine coating on the outermost viewfinder lens that repels fingerprints, dust, water, oil, and dirt.

* When the auto or electronic shutter mode is selected the viewfinder frame rate is fixed at 60 fps during continuous shooting

Quad-VGA OLED Tru-Finder

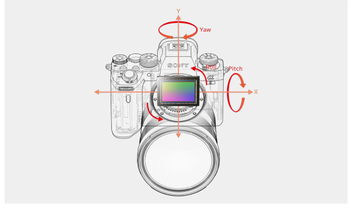


5.5-step* 5-axis image stabilization

A 5-axis optical image stabilization unit and high-precision gyro sensors provide a 5.5-step* shutter speed advantage for full-frame images. Camera shake is effectively compensated for in 5 axes: pitch and yaw that have the largest overall impact on image quality, X and Y shift that is most apparent at high magnification, and roll that can ruin night shots and movies. Stabilization is applied to the live-view image, making it easier to frame fast-moving subjects. Effective stabilization is provided for movies as well as stills, and for A-mount lenses attached via a mount adapter.

* 5.0 step in the α9. CIPA standards. Pitch/yaw shake only. Planar T* FE 50mm F1.4 ZA lens. Long exposure NR off.

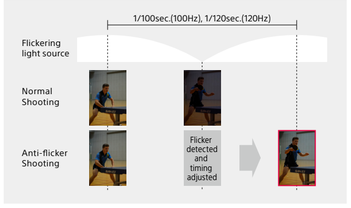
5-axis SteadyShot INSIDE



Anti-flicker shooting with mechanical shutter* α9 II

Flicker from fluorescent lights and other artificial lighting can ruin still images if it and the shutter timing are out of sync. The α9 II automatically detects flicker and adjusts shutter timing to eliminate exposure and color variations, even when shooting continuously at up to 10 fps with AF and AE tracking. The anti-flicker shooting feature also works when using flash.

* α9 II only. Mechanical shutter. Only 100 Hz and 120 Hz flicker is detected. Continuous shooting speed may decrease. Anti-flicker shooting is not available during BULB exposure, or movie recording.



Quick, efficient control

AF-ON button

Simply press the AF-ON button to activate autofocus when shooting stills or movies. There's no need to go through the normal half-press focus sequence. In response to feedback from users, the shape, feel, and location of the α9 II AF ON button have been further refined for smooth, intuitive control.

Drive mode and focus mode dials

Independently operable stacked drive mode and focus mode dials allow fast selection of drive and focus modes without having to access menus via buttons. Both dials are lockable, preventing unwanted mode changes during use.

Multi-selector

The multi-selector provides a fast, efficient way to shift focus points: simply press the up, down, left, or right button. When reviewing shots in playback mode the multi-selector is used to select the previous or next image. The α9 II multi-selector has been redesigned for even better control and response.

Touch Focus and Touch Tracking

Simply touch the monitor screen to specify the desired focus point for stills or movies, even when subjects are near the frame edges. Double-tap any point for a magnified view when focusing manually. There's also a Touch Tracking function that makes it possible to specify the subject to be tracked by the camera's Real-time Tracking feature by simply touching it on the monitor.

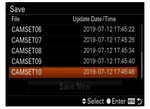
Exposure compensation dial lock α9 II

An exposure dial lock button located at the center of the exposure compensation dial can be locked to prevent accidental, unwanted changes, or unlocked to allow rapid adjustments in varying light conditions.

Customizable versatility

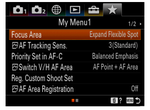
Save/load settings α9 II

Now camera settings can be saved to and read from a memory card via the Save/Load Settings function. Up to 10 combinations of settings can be saved to one memory card and loaded into any camera body of the same type. It is now also possible to save and load settings to and from the Imaging Edge Mobile application (Ver. 7.2 or later).



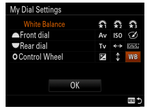
My Menu & menu interface

The My Menu feature allows up to 30 menu items to be registered for instant recall when needed. The registered items can be arranged in order of use frequency, and unused items can be erased as required. The user can create a custom menu that ideally suits his or her shooting needs.



My Dial

Custom function assignments can now be made to the front/rear dials and the control wheel. By assigning frequently used functions to these dials, they become instantly available for temporary use while a custom button is held. Three sets of custom functions can be assigned for even further versatility.



Recall Custom Setup during Hold

Memorized settings (exposure, focus settings, AF tracking sensitivity, drive mode, etc.) can be assigned to custom buttons for temporary recall while the button is held. This is a great way to quickly make temporary setting changes for varying shooting situations.

Custom button assignments

The α9 II and α9 allow 125 or 118 functions to be assigned to 15 custom buttons, respectively. Independent function sets can be assigned for stills, movies, and playback.

Comprehensive high-speed connectivity

* α9 and α9 II, except where noted.

α9 II

Connectivity, data transfer efficiency, and remote control are the cornerstones of many professional applications, and that is where the α9 II excels. It provides a built-in 1000BASE-T LAN connector for fast wired access, wireless communication via the 2.4 GHz and 5 GHz* Wi-Fi bands, and a USB 3.2 Gen 1 port for high-speed USB transfers.

* Models sold in some countries/regions support IEEE 802.11b/g/n (2.4 GHz) only. 5GHz communication may be restricted in some countries and regions.

Multiple approaches to remote shooting

A number of remote shooting options offer optimum support for a wide range of subjects and situations. The Remote Camera Tool (Ver. 2.0 or later) desktop application provides comprehensive control of multiple cameras via wired LAN connections, the Imaging Edge Remote (Ver. 2.0 or later) desktop application allows remote shooting via Wi-Fi or a USB connection, and the Imaging Edge Mobile (Ver. 7.2 or later) app turns your mobile device into a versatile remote commander and image transfer hub.

Flexible file sorting

The Remote Camera Tool and Imaging Edge Remote desktop applications make it easy to automatically send specified file types to different destinations. You can choose to store image files to the camera's memory media only, send them to the connected computer without storing them in the camera, or send them to the computer while also retaining them in the camera. You can also choose to only send either full-size or compact 2-megapixel JPEG files to the computer for faster transfer and review.

Voice Memo

The α9 II features a new Voice Memo function that allows up to 60 seconds of spoken information to be attached to images in the form of voice memos (.wav file) that can be replayed when the images are reviewed.*1 The attached voice memos can be transferred via FTP along with the corresponding image data. The photographer can also use the Transfer & Tagging add-on application (Version 1.1 or later) on a mobile device to automatically or manually convert voice memos to text information*2. All of this can contribute to speedier, more efficient delivery.

*1 Voice memos cannot be attached to movies.
*2 Only available in regions where Google services are available. Voice memo exceeding 50 seconds cannot be converted to text.

Background FTP transfer during remote shooting

So that you can concentrate on photography rather than managing file transfers, the Remote Camera Tool, Imaging Edge Remote, and Transfer & Tagging add-on (Ver. 1.1 or later) applications can automatically transfer images to a specified destination in the background while you continue to shoot. Up to nine FTP servers can be registered for FTP transfers.

Post-shoot file transfers

Images can be individually sent to a specified FTP server after shooting, either via the built-in wired LAN connector or wirelessly via Wi-Fi, using FTPS (File Transfer Protocol over SSL/TLS) protocol for maximum security. The Transfer & Tagging add-on mobile app also supports Wi-Fi file transfers to mobile devices.

Save/Load FTP Settings

A new Save/Load FTP Settings feature makes it possible to save FTP Transfer Func. Menu settings, including file types specified for transfer, and reload the settings into any α9 II body. Setting files are password protected during both save and load operations for maximum security. Up to 10 sets of FTP settings can be saved to SD card separately from the normal shooting settings. The Imaging Edge Mobile app can be used to save up to 20 sets of settings.

α9

α9 communication

Although the α9 II has the most advanced communication capabilities, the α9 offers ample connectivity and file management features for many needs. It provides wired 100BASE-TX LAN connectivity that can be used with the Remote Camera Tool desktop application for tethered shooting and still-image data transfers at speeds of up to 100 Mbps, and USB connectivity that allows tethered shooting and transfers via the Imaging Edge Remote desktop application. The α9 is also compatible with the Imaging Edge Mobile app, so you can shoot and transfer images using a smartphone or tablet. Up to nine FTP servers can be registered as destinations for wired LAN image transfers, and FTPS (File Transfer Protocol over SSL/TLS) protocol can be employed for maximum security.

Imaging Edge https://www.sony.net/disot/d/

Imaging Edge™ (Remote/Viewer/Edit)
(Ver. 2.0 or later)

Elevate your photography with Imaging Edge desktop applications. Use "Remote" to control and monitor shooting live on your PC screen; "Viewer" to quickly preview, rate, and select photos from large image libraries; and "Edit" to develop RAW data into high-quality photos for delivery. Get the best from Sony RAW files, and manage your productions more efficiently.*

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

Imaging Edge Mobile
(Ver. 7.2 or later)

The Imaging Edge Mobile application for mobile devices makes remote camera control and data transfers more convenient than ever. Both still and movie files can be transferred. If the appropriate settings are made in advance, it is even possible to transfer files from an SD card in the camera to a smartphone or tablet via Wi-Fi if the camera power is OFF. The Imaging Edge Mobile application also makes it easy to geotag your images.

Transfer & Tagging add-on
(Ver. 1.1 or later)

This add-on for the Imaging Edge Mobile application can significantly speed up a photographic workflow by allowing FTP background transfers to a mobile device as well as automatic voice-to-text conversion and embedding. FTP parameters can be set up in advance via the app, and then sent to the camera.

Remote Camera Tool Support
(Ver. 2.0 or later)

The Remote Camera Tool application offers high-level support for wired LAN data communication, for stable, responsive PC Remote shooting, data transfer, and control. Connect the camera directly to the computer or a switching hub on the local network via a LAN cable for detailed remote camera parameter editing and tethered shooting control, plus fast still-image data transfers.

Professional reliability

* All images on these pages show the α9 II
* α9 and α9 II, except where noted.

Improved grip hold α9 II

In response to user feedback the α9 II grip has been redesigned for greater comfort and a sure hold, minimizing stress when shooting for long periods of time and/or with long telephoto lenses. The grip itself is long enough to provide ample room for the little finger. Overhang in the middle finger area has also been increased.

Dual media slots α9 II

Both the α9 and α9 II provide two media slots for still and movie storage. Both α9 II slots are compatible with UHS-I and UHS-II SD cards. Still or movie data can be simultaneously recorded to both cards for backup, or RAW images can be recorded to one card while JPEG images are recorded to the other. It is also possible to record stills and movies to different cards, and there is a "relay" mode in which still image or movie recording will automatically switch to the second media card when the first media card becomes full. Data can be copied between cards while in the camera, so you don't have to use a computer.

Professional stamina

Sony's high-capacity NP-FZ100 battery offers extended life, allowing up to approximately 500 still frames*1 to be captured with the α9 II on a single charge.*2 But that's just with the body alone. The optional VG-C3EM (α9) and VG-C4EM (α9 II) vertical grips house two batteries that let you shoot up to almost twice that number of images in continuous mode. And when you need serious stamina for long sessions there's the NPA-MQZ1K Multi Battery Adaptor Kit that can hold up to four batteries.

*1 When using the viewfinder.
*2 Up to approximately 480 still frames with the α9.

Durable magnesium alloy chassis

Body construction features a lightweight, high-rigidity magnesium alloy for the top cover, front cover, internal frame, and rear cover. The grip area has also been reinforced with an integrated magnesium alloy grip and front cover. Although about the same size and weight as the α7 series, the α9 and α9 II bodies are packed with unprecedented functionality and performance.

Durable low-vibration mechanical shutter

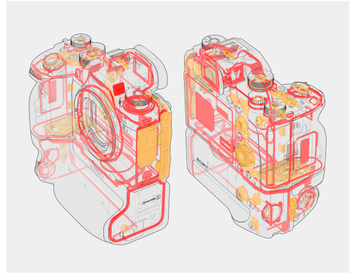
A low-vibration design minimizes mechanical shutter vibration and noise so that shutter operation has negligible effect on image quality. The α9 II shutter unit features further refinements for even smoother, quieter operation. Both shutter units have been tested for durability in excess of 500,000* cycles.

* Electronic front curtain shutter, Sony tests

Reliable dust and moisture resistant design* α9 II

While both the α9 and α9 II are dust and moisture resistant, the α9 II features a few refinements. All major buttons and dials are provided with seals, while media jack cover and enclosure edges feature tongue-and-groove joints for double protection. Sealing is provided throughout the body to minimize dust and moisture ingress, allowing it to function reliably in challenging environments*. Maximum dust and moisture resistance is maintained at lens, vertical grip, and flash unit joints too, providing excellent system reliability.

* Not guaranteed to be 100% dust and moisture proof.



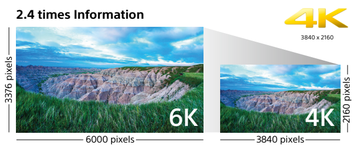
Advanced 4K movie quality and control

* α9 and α9 II, except where noted.

High-resolution 4K movies

Full pixel readout with no pixel binning makes it possible to condense approximately 2.4 times* the amount of data required for 4K (equivalent to the amount of data required for 6K) into 3840 x 2160 4K output. This oversampling process plus full-frame pixel readout without binning results in the highest possible 4K movie image quality.

* 24p recording. Approx. 1.6 times for 30p recording.



Fast Hybrid AF for movies

A refined Fast Hybrid AF system achieves faster, smoother, more stable autofocus during movie recording. Consistent, stable tracking is maintained even if an object temporarily moves in front of the main subject, or a small aperture must be used. This greatly reduces the need for manual focus adjustments when the camera is used on a gimbal, for run-and-gun projects, or in other one-operator shooting situations.

Touch Tracking for movies

Touch Tracking is also a boon for movie recording. Touch the subject to be tracked on the monitor, and the Real-time Tracking function will then process color, pattern (brightness), distance (depth), and face information to precisely and smoothly track the selected subject at the specified sensitivity and speed. It is also possible to half-press the shutter button or press the AF ON button while shooting to achieve fast focus (AF-S). This can be an advantage for weddings or documentaries, where there is only one chance to capture a scene. In such cases the focus area selected in advance is applied.

Real-time Eye AF for movies

Human eyes can now be automatically identified and precisely tracked while shooting movies, so the operator can concentrate on the content rather than focus. The same Touch Tracking functionality that is provided for stills is also available for movie shooting, easily initiating Real-time Eye AF tracking on a specified eye. Right/left eye selection is available for movies too.

Slow and Quick motion*

Frame rates from 1 fps to 120 fps (100 fps PAL) can be selected in eight steps for up to 60x quick motion and 5x slow motion while recording at up to 50 Mbps with full-HD quality. 24p, 30p, or 60p (25p or 50p PAL) recording frame rates can also be selected as required. Slow and Quick motion effects can be previewed immediately after recording, without the need for post production.

* Sound not recorded. Class 10 or higher SDHC/SDXC memory card required

S&Q Record Setting			
NTSC	24p	30p	60p
PAL	25p	50p	

S&Q Frame Rate								
NTSC	1fps	2fps	4fps	8fps	15fps	30fps	60fps	120fps
PAL	1fps	2fps	3fps	6fps	12fps	25fps	50fps	100fps

Digital Audio Interface

On the α9 II, Sony's Multi Interface Shoe features a built-in digital audio interface that allows direct connection of the new digital ECM-B1M Shotgun Microphone or XLR-K3M XLR Adaptor Kit for clear, low-noise audio recording. Like other MI shoe accessories, no cables or batteries are required, providing unrestrained freedom for α system moviemaking.

Other features that enhance the α experience

* α9 and α9 II, except where noted.

10/100 image review jump

In addition to scrolling through recorded images one at a time, a new Image Jump setting makes it possible to skip ahead by 10 or 100 frames, making it faster and easier to locate a desired image

Ratings and protect functions

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.

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.

New 4:3* and 1:1 aspect ratios

In addition to the previously available 3:2 and 16:9 aspect ratios, the α9 II provides 4:3 and 1:1 aspect ratios. The α9 provides 3:2, 16:9, and 1:1 aspect ratio settings. The availability of these extra in-camera aspect ratios facilitates delivery in a correspondingly wider range of formats, reducing the need for post-shoot cropping and allowing for speedier delivery.

* 4:3 aspect ratio available in the α9 II only.

AWB lock

Auto white balance can be locked or unlocked on the fly while shooting, to set white balance to match one of several light sources in mixed lighting situations. In environments with mixed artificial and natural window light, for example, you might want to ensure that white balance matches the artificial indoor light.

Priority Set in AWB

When white balance is set to Auto and incandescent lamps or similar are the light source, the color tone priority can be set to Standard, Ambience, or White. Ambience priority produces a warm tone, while white priority reproduces accurate whites.

Expanded custom white balance control

Rather than being fixed at the center of the frame, the measurement area for custom white balance settings can be moved around as required so custom white balance can be set after the image has been composed. Custom white balance acquisition and positioning can also be controlled from the computer during PC Remote shooting.

Fast, Expressive α Lenses

FE 600mm F4 GM OSS (SEL600F40GM)
1/3200sec., F4, ISO 400

FE 400mm F2.8 GM OSS (SEL400F28GM) ©Bob Martin
1/2000 sec., F2.8, ISO 200

FE 200-600mm F5.6-6.3 G OSS (SEL200600G)
1/3200 sec., F6.3, ISO 500

FE 100-400mm F4.5-5.6 GM OSS (SEL100400GM)
1/1250 sec., F5.6, ISO 200

FE 70-200mm F2.8 GM OSS (SEL70200GM)
1/500 sec., F2.8, ISO 400

FE 12-24mm F4 G (SEL1224G)
1/125 sec., F8, ISO 100

E-mount
G Master™
G MASTER

FE 24mm F1.4 GM
(SEL24F14GM)

FE 85mm F1.4 GM
(SEL85F14GM)

FE 100mm F2.8 STF GM OSS
(SEL100F28GM)

FE 135mm F1.8 GM
(SEL135F18GM)

FE 16-35mm F2.8 GM
(SEL1635GM)

FE 24-70mm F2.8 GM
(SEL2470GM)

FE 70-200mm F2.8 GM OSS
(SEL70200GM)

FE 100-400mm F4.5-5.6 GM OSS
(SEL100400GM)

FE 400mm F2.8 GM OSS
(SEL400F28GM)

FE 600mm F4 GM OSS
(SEL600F40GM)

1.4x Teleconverter Lens
(SEL14TC)
for FE 70-200mm F2.8 GM OSS, FE 100-400mm F4.5-5.6 GM OSS, FE 200-600mm F5.6-6.3 G OSS, FE 400mm F2.8 GM OSS, FE 600mm F4 GM OSS

2x Teleconverter Lens
(SEL20TC)
for FE 70-200mm F2.8 GM OSS, FE 100-400mm F4.5-5.6 GM OSS, FE 200-600mm F5.6-6.3 G OSS, FE 400mm F2.8 GM OSS, FE 600mm F4 GM OSS

E-mount
G Lens™
G

FE 90mm F2.8 Macro G OSS
(SEL90M28G)

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)

FE 70-300mmF4.5-5.6 G OSS
(SEL70300G)

FE 200-600mm F5.6-6.3 G OSS
(SEL200600G)

E-mount
ZEISS®
ZEISS

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)

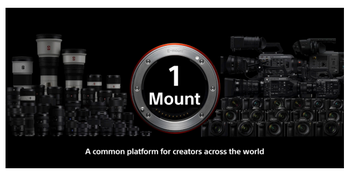
Vario-Tessar T* FE 16-35mm F4 ZA OSS
(SEL1635Z)

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

One mount for all your imaging needs

Whether you shoot full-frame or APS-C, movies or stills, casually or professionally, Sony's E Mount offers full compatibility with an extensive and growing lineup of top-quality lenses that supports your creative vision.

http://www.sony.net/alibrary



More choices for expressive imagery

Sony's impressive range of A-mount lenses is supported via the LA-EA3 A-Mount to E-Mount lens adaptor. All the advanced features of Sony's latest α series bodies, including Eye AF, are supported for most A-mount lenses.*

* With SSM and SAM lenses only. With the LA-EA3 mount adaptor. Eye AF 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).

Options for expanded photographic capability

Vertical Grip

VG-C3EM for α9/VG-C4EM for α9II

- Optimum hold[*1] and control comfort when shooting in vertical orientation
- Houses two NP-FZ100 batteries for longer operation, and supports USB charging via the camera

These vertical grips duplicate the controls on the respective camera bodies, providing the same control access for vertical shooting. The grip shape is the same too, for seamless, comfortable switching between horizontal and vertical orientation. Both models feature the same magnesium-chassis rigidity as the bodies. The VG-C3EM equals the dust and moisture resistance of the α9 body, while the VG-C4EM implements the enhanced environmental sealing of the α9 II.[*2] In addition to holding two NP-FZ100 batteries for extended shooting time, camera and battery charging power can be supplied via the USB connector.[*3]

*1 Simultaneous use with LE-EA2 or LA-EA4 mount adaptor not supported due to narrow clearance between mount adapter and vertical grip.
*2 Not guaranteed to be 100% dust and moisture proof.
*3 Power supply and charging cannot be carried out simultaneously.

Radio Wireless Flash

HVL-60RM

- Pro-performance clip-on flash with high GN60[*1] output
- Functions as a wireless radio commander or receiver in multi-flash setups

The HVL-F60RM is powerful and convenient for use in the field or studio, delivering up to Guide Number 60[*1] power with a 1.7-second[*2] recycle time. It can be used as a wireless radio receiver or commander that can control up to 15 compatible off-camera flash units or receivers in up to 5 groups.[*3] Radio wireless works reliably at distances up to 30 meters.[*4]
High-visibility menus and a Quick Navi interface offer easy, intuitive operation, while 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[*5] for high reliability. An AF illuminator light is included for reliable focusing.

*1 105mm at ISO 100 in meters.
*2 1/1 manual flash emission, alkaline batteries.
*3 Up to 5 groups in GROUP mode, and up to 3 groups in TTL or MANUAL mode.
*4 Internal Sony tests.
*5 Not guaranteed to be 100% dust and moisture proof.

Multi Battery Adaptor Kit

NP-MQZ1K

- Allows sequential use of up to four NP-FZ100 batteries
- Also functions as a four-battery rapid charger[*1]
- Supplied with two NP-FZ100 batteries

This Multi Battery Adaptor Kit houses up to four NP-FZ100 rechargeable battery packs and connects to the camera via a plug-in plate, providing dramatically extended operating time for sessions that can't be interrupted by battery changes. The NPA-MQZ1K also supports power supply from NP-FW50[*2]. It includes two USB ports so that power can be delivered to the camera and a USB device simultaneously. LED indicators show the remaining power for each battery. Three tripod mount sockets on the upper surface and three on the lower surface provide flexible mounting options.
In addition to supplying power, the NPA-MQZ1K also functions as rapid charger, Four NP-FZ100 batteries can be charged to 90% level in approximately 480 minutes.

*1 With the supplied AC adaptor. NP-FW50 charging not supported.
*2 See Sony support page for camera compatibility.

Rechargeable Battery Pack

NP-FZ100

Battery Charger

BC-QZ1

Wireless Remote Commandar

RMT-P1BT

Shotgun Microphone

ECM-B1M

Screen Protect Glass Sheet

PCK-LG1

Eyepiece Cup

FDA-EP18

SD Cards

SF-GT Series

External SSD

SL-C/SL-M series

Microphone

Shotgun Microphone
ECM-B1M

Shotgun Microphone
ECM-CG60

Stereo Microphone
ECM-XYST1M

Wireless Microphone
ECM-W1M

XLR Adaptor Kit
XLR-K3M

XLR Adaptor Kit
XLR-K2M

Microphone

Wireless Microphone
ECM-AW4

Electret Condenser Microphone
ECM-MS2

Sony | Accessory Support Page:
https://www.sony.net/dics/acc/

Flash

Flash
HVL-F60RM

Flash
HVL-F45RM

Flash
HVL-F32M

Wireless Radio Commander
FA-WRC1M

Wireless Radio Receiver
FA-WRR1

Flash
HVL-F20M

Tripod / Commander

Remote Control Tripod
VCT-VPR1

Remote Commander
RM-VPR1

Remote Commander
RM-SPR1

Wireless Remote Commander
RMT-P1BT

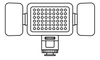
Remote Commander
RMT-DSLR2

Vertical Grip

VG-C3EM
for α9

VG-C4EM
for α9II

Light



Battery Video Light
HVL-LE1

Battery Video Light
HVL-LBPC

Battery Video IR Light
HVL-LEIR1

Monitor

Clip-on LCD Monitor
CLM-FHD5

Clip-on LCD Monitor
CLM-V55

Power

Rechargeable battery Pack
NP-FZ100

Battery Charger
BC-QZ1

Multi Battery Adaptor Kit
NPA-MQZ1K

Other

Body Cap
ALC-B1EM

Circular PL Filters
VF-49CPAM/VF-49CPAM2
VF-55CPAM/VF-55CPAM2
VF-62CPAM/VF-62CPAM2
VF-67CPAM/VF-67CPAM2
VF-72CPAM/VF-72CPAM2
VF-77CPAM/VF-77CPAM2
VF-82CPAM/VF-82CPAM2

MC Protectors
VF-M405MP/VF-82MPA/
VF-77MPAM/VF-72MPAM/
VF-67MPAM/VF-62MPAM/
VF-55MPAM/VF-49MPAM

Multi Terminal Connecting Cable
VMC-MM1

Multipod
VCT-MP1

Tripod
VCT-P300

LCD Protect Semi Hard Sheet
PCK-LG1

Eyepiece Cup
FDA-EP18

HDMI Cable (Micro)
DLC-HEU15

Bracket
VCT-55LH

Shoe Cap
FA-SHC1M

Grip Extension
GP-X1E
for α9

Strap

Shoulder Strap
STP-SB2AM

Shoulder Strap
STP-SS5

Shoulder Strap
STP-XH70

Shoulder Strap
STP-XH1

Case

Soft Carrying Case
LCS-SL20

Sling Bag
LCS-SB1

Soft Carrying Case
LCS-PSC7

Soft Carrying Case
LCS-SC8

Soft Carrying Case
LCS-SC21

Back Pack
LCS-BP2

Back Pack
LCS-BP3

Controls

α9 (ILCE-9)

1 AF illuminator/self-timer lamp
2 Front dial
3 Remote sensor
4 Lens release button
5 Mounting index
6 Mount
7 Image sensor
8 Lens contacts
9 Eye sensor
10 Viewfinder
11 Eyepiece cup
12 C3 button (Custom button 3)

13 MENU button
14 Monitor (For touch operation: Touch panel/Touch pad)
15 Playback button
16 MOVIE (Movie) button
17 Rear dial
18 For shooting: AEL button
For viewing: Image index button
19 For shooting: AF-ON (AF On) button
For viewing: Enlarge button
20 Multi-selector
21 For shooting: Fn (Function) button
For viewing: Send to Smartphone button

22 Control wheel
23 Access lamp
24 For shooting: C4 button(Custom button 4)
For viewing: (Delete) button
25 Microphone
26 Multi Interface Shoe
27 Upper: Drive mode dial
Lower: Focus mode dial
28 Drive mode dial lock release button
29 Focus mode dial lock release button
30 ON/OFF (Power) switch
31 Shutter button

32 C2 button (Custom button 2)
33 C1 button (Custom button 1)
34 Image sensor position mark
35 Exposure compensation dial
36 Mode dial
37 Mode dial lock release button
38 Diopter-adjustment dial
39 Media slot cover switch
40 Hook for shoulder strap
41 N mark
42 Hook for shoulder strap
43 LAN terminal

44 Flash sync terminal
45 Speaker
46 Microphone jack
47 Headphones jack
48 HDMI micro jack
49 Charge lamp
50 Multi/Micro USB Terminal

α9 II (ILCE-9M2)

1 AF illuminator/self-timer lamp
2 Front dial
3 Infrared remote sensor
4 Lens release button
5 Mounting index
6 Mount
7 Image sensor
8 Lens contacts
9 Eye sensor
10 Viewfinder
11 Eyepiece cup
12 C3 button (Custom button 3)/
Protect button

13 MENU button
14 Monitor (For touch operation: Touch panel/Touch pad)
15 Playback button
16 MOVIE (Movie) button
17 For shooting: AEL button
For viewing: Image index button
18 For shooting: AF-ON (AF On) button
For viewing: Enlarge button
19 Multi-selector
20 For shooting: Fn (Function) button
For viewing: Send to Smartphone button
21 Control wheel

22 Access lamp
23 For shooting: C4 button(Custom button 4)
For viewing: (Delete) button
24 Microphone
25 Multi Interface Shoe
26 Upper: Drive mode dial
Lower: Focus mode dial
27 Drive mode dial lock release button
28 ON/OFF (Power) switch
29 Shutter button
30 C2 button (Custom button 2)
31 C1 button (Custom button 1)
32 Image sensor position mark

33 Exposure compensation dial
34 Rear dial
35 Mode dial
36 Mode dial lock release button
37 Diopter-adjustment dial
38 Media slot cover
39 Hook for shoulder strap
40 N mark
41 Hook for shoulder strap
42 LAN terminal
43 Flash sync terminal
44 Speaker

45 Microphone jack
46 Headphones jack
47 HDMI micro jack
48 USB Type-C terminal
49 Charge lamp
50 Multi/Micro USB Terminal

Number of recordable frames for single media (Image size L 24M, aspect ratio 3:2)

	α9 Software Ver. 6.0				α9 II			
	16G	32G	64G	128G	16G	32G	64G	128G
Standard	2,250	4,550	9,000	18,000	2,250	4,550	9,000	18,000
Fine	1,550	3,200	6,300	12,500	1,550	3,150	6,300	12,500
Extra fine	870	1,700	3,500	7,000	870	1,700	3,500	7,000
RAW & JPEG (Compressed RAW)	430	870	1,700	3,450	430	860	1,700	3,450
RAW (Compressed RAW)	600	1,200	2,400	4,800	600	1,200	2,400	4,800
RAW & JPEG (Uncompressed RAW)	255	510	1,000	2,050	255	510	1,000	2,050
RAW (Uncompressed RAW)	305	610	1,200	2,450	305	610	1,200	2,450

Movie recording time for single media (Hours:Minutes:Seconds, Proxy off setting)

		α9 Software Ver. 6.0				α9 II			
		16GB	32GB	64GB	128GB	16GB	32GB	64GB	128GB
XAVC S 4K	30p 100M/25p, 100M	0:15:00	0:35:00	1:15:00	2:35:00	0:15:00	0:35:00	1:15:00	2:30:00
	30p 60M/25p, 60M	0:30:00	1:00:00	2:05:00	4:10:00	0:25:00	0:55:00	2:00:00	4:00:00
	24p, 100M	0:15:00	0:35:00	1:15:00	2:35:00	0:15:00	0:35:00	1:15:00	2:30:00
	24p, 60M	0:30:00	1:00:00	2:05:00	4:10:00	0:25:00	0:55:00	2:00:00	4:00:00
XAVC S HD	120p, 100M/100p 100M	0:15:00	0:35:00	1:15:00	2:35:00	0:15:00	0:35:00	1:15:00	2:30:00
	120p, 60M/100p 60M	0:30:00	1:00:00	2:05:00	4:10:00	0:25:00	0:55:00	2:00:00	4:00:00
	60p, 50M/50p 50M	0:35:00	1:10:00	2:30:00	5:05:00	0:35:00	1:10:00	2:25:00	5:00:00
	60p,25M/50p,25M	1:05:00	2:20:00	4:45:00	9:40:00	1:05:00	2:20:00	4:45:00	9:40:00
	30p,50M/25p,50M	0:35:00	1:10:00	2:30:00	5:05:00	0:35:00	1:10:00	2:25:00	5:00:00
	30p,16M/25p,16M	1:45:00	3:35:00	7:20:00	14:50:00	1:45:00	3:35:00	7:20:00	14:55:00
	24p,50M	0:35:00	1:10:00	2:30:00	5:05:00	0:35:00	1:10:00	2:25:00	5:00:00
AVCHD	60i,24M/50i,24M	1:25:00	2:55:00	6:00:00	12:05:00	1:25:00	2:55:00	6:00:00	12:05:00
	60i,17M/50i,17M	2:00:00	4:05:00	8:15:00	16:35:00	2:00:00	4:05:00	8:15:00	16:35:00

- Recommended memory cards for movie recording in AVCHD/MP4 formats: Memory Stick PRO Duo (Mark2), Memory Stick PRO-HG Duo, SD memory card/SDHC memory card/SDXC memory card(Class 4 or more)
- Recommended memory card for movie recording in XAVC S format: SDHC/SDXC memory card of Class 10 or higher
- The numbers in the table show approximate maximum recordable time obtained by totaling all movie files.
- AVCHD movies are automatically divided into separate files up to a maximum of 2GB each.

Main specifications of α9 (ILCE-9) α9 II (ILCE-9M2)

		α9 Software Ver. 6.0	α9 II
General	Camera Type	Interchangeable-lens digital camera	
	Lens Mount	E-mount	
Image sensor	Aspect Ratio	3:2	
	Type	35mm full frame (35.6×23.8mm), Exmor RS CMOS sensor	
	Number of Pixels	Approx. 24.2 megapixels (Effective), Approx. 28.3 megapixels (Total)	
	Anti-Dust System	Charge protection coating on optical filter and image sensor shift mechanism	
Recording (still images)	Recording Format	JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)	
	Image Size (pixels) [3:2]	35mm full frame L: 6000 x 4000 (24M), M: 3936 x 2624 (10M), S: 3008 x 2000 (6.0M), APS-C L: 3936 x 2624 (10M), M: 3008 x 2000 (6.0M), S: 1968 x 1312 (2.6M)	
	Image size (pixels) [4:3]	-	35mm full frame L: 5328 x 4000 (21M), M: 3488 x 2624 (9.2M), S: 2656 x 2000 (5.3M) APS-C L: 3488 x 2624 (9.2M), M: 2656 x 2000 (5.3M), S: 1744 x 1312 (2.3M)
	Image Size (pixels) [16:9]	35mm full frame L: 6000 x 3376 (20M), M: 3936 x 2216 (8.7M), S: 3008 x 1688 (5.1M), APS-C L: 3936 x 2216 (8.7M), M: 3008 x 1688 (5.1M), S: 1968 x 1112 (2.2M)	
	Image size (pixels) [1:1]	35mm full frame L: 4000 x 4000 (16M), M: 2624 x 2624 (6.9M), S: 2000 x 2000 (4.0M) APS-C L: 2624 x 2624 (6.9M), M: 2000 x 2000 (4.0M), S: 1312 x 1312 (1.7M)	
	Image quality modes	RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)	
	Picture Effect	8 types: Posterization (Color, B&W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key , Rich-tone Monochrome	
	Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia,Style Box(1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia,Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-5 to +5 steps))
	Picture Profile	-	
	Dynamic Range Functions	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level(1-6 EV, 1.0 EV step))	
	Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color	
	RAW Output	Yes	
	Uncompressed RAW	Yes	
Recording (movie)	Recording Format	XAVC S, AVCHD format Ver. 2.0 compliant, MP4	
	Video Compression	XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264, MP4: MPEG-4 AVC/H.264	
	Audio Recording Format	XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator, MP4: MPEG-4 AAC-LC 2ch	
	Color Space	xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color	
	Picture Effect	Posterization (Color, B&W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key	
	Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia,Style Box(1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia,Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-5 to +5 steps))
	Picture Profile	-	
	Gamma Disp. Assist	-	

		α9 Software Ver. 6.0	α9 II
Recording (movie)	Image Size (Pixels), NTSC	XAVC S 4K: 3840 x 2160 (30p, 100M), 3840 x 2160 (24p, 100M), 3840 x 2160(30p, 60M), 3840 x 2160 (24p, 60M) XAVC S HD: 1920 x 1080 (120p, 100M), 1920 x 1080 (120p, 60M), 1920 x 1080 (60p, 50M), 1920 x 1080 (30p, 50M), 1920 x 1080 (24p, 50M), 1920 x 1080(60p, 25M), 1920 x 1080(30p, 16M) AVCHD: 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH),	
	Image Size (pixels), PAL	XAVC S 4K: 3840 x 2160 (25p, 100M), 3840 x 2160 (25p, 60M) XAVC S HD: 1920 x 1080 (100p, 100M), 1920 x 1080 (100p, 60M), 1920 x 1080 (50p, 50M), 1920 x 1080 (25p, 50M), 1920 x 1080(50p, 25M), 1920 x 1080(25p, 16M) AVCHD: 1920 x 1080(50i, 24M, FX), 1920 x 1080(50i, 17M, FH)	
	Slow & Quick motion (S&Q) Record Setting	NTSC mode: 1920x1080 (60p, 30p, 24p) PAL mode: 1920x1080 (50p, 25p)	
	Slow & Quick motion (S&Q) Frame Rate	NTSC mode: 1fps,2fps,4fps,8fps,15fps,30fps,60fps,120fps PAL mode: 1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps,	
	Movie Functions	Audio Level Display, Audio Rec Level, PAL/NTSC Selector, TC/UB, [TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec], Auto Slow Shutter, HDMI Info. Proxy Recording, AF Tracking Duration, AF Drive Speed, Display(ON/OFF selectable), REC Control	
	HDMI Output	3840 x 2160 (25p), 1920 x 1080 (50p), 1920 x 1080 (50i), 1920 x 1080(24p), 1920 x 1080 (60p), 1920 x 1080 (60i), 3840 x 2160 (30p), 3840 x 2160 (24p), YCbCr 4:2:2 8bit / RGB 8bit	
Recording system	Location information Link from smartphone	Yes	
	Media	Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant), microSD memory card, microSDHC memory card, microSDXC memory card	SD memory card, SDHC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant), microSDXC memory card, microSDHC memory card, microSDXC memory card
	Memory Card Slot	SLOT1 : Slot for SD (UHS-I/II compliant) memory card, SLOT2 : Multi slot for Memory Stick Duo/SD (UHS-I compliant) memory card	SLOT1:Slot for SD (UHS-I/II compliant) memory card SLOT2:Slot for SD (UHS-I/II compliant) memory card
	Recording mode on 2 memory cards	Simult. Rec (Still), Simult. Rec (Movie), Simult. Rec (Still/Movie), Sort (JPEG/RAW), Sort (Still/Movie), Auto Switch Media (On/Off), Copy	
Noise reduction	Noise Reduction	Long exposure NR: On/Off , available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low/Off	
White Balance	White Balance Modes	Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White / Daylight) / Flash /Underwater/ Color Temperature (2500 to 9900K) & color filter (G7 to M7:57 steps, A7 to B7: 29 steps) / Custom	
	AWB Micro Adjustment	G7 to M7 (57 steps), A7 to B7 (29 steps)	
	Priority Set in AWB	Yes	
	Bracketing	3 frames, W/L selectable	
Focus	Focus Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF)	
	Focus Sensor	Exmor RS CMOS sensor	
	Focus Point	35mm full frame: 693 points (phase-detection AF), APS-C mode with FE lens: 299 points (phase-detection AF), with APS-C lens: 221 points (phase-detection AF) / 425 points (contrast-detection AF)	
	Focus Sensitivity Range	EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached)	
	Focus Mode	AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus	
	Focus Area	Wide (693 points (phase-detection AF), 425 points(contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L) /Expanded Flexible Spot/ Tracking / Wide / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot)	
	Eye AF	[Still images] Human (Right/Left Eye Select) / Animal	[Still images] Human (Right/Left Eye Select) / Animal, [Movie] Human (Right/Left Eye Select)

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Focus	Other Features	Eye-start AF (only with LA-EA2 or LA-EA4 attached[Sold separately]), Tracking, AF micro adjustment (with separately sold LA-EA2 or LA-EA4), Predictive control, Focus lock, AF Track Sens, Swt.V/H AF Area, AF Area Regist., Circ. of Focus Point	
	AF Illuminator	Yes (with Built-in LED)	
	AF Illuminator range	Approx. 0.3m - approx. 3.0m (with FE 28-70mm F3.5-5.6 OSS attached)	
	Focus type with LA-EA3 [Sold separately]	selectable (phase-detection, contrast-detection)	
Exposure	Metering Type	1200-zone evaluative metering	
	Metering Sensor	Exmor RS CMOS sensor	
	Metering Sensitivity	EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)	
	Metering Mode	Multi-segment, Center-weighted, Spot, Spot Standard/Large, Entire Screen Avg., Highlight	
	Exposure Compensation	+/- 5.0EV (1/3 EV, 1/2 EV steps selectable), (with exposure compensation dial : +/- 3EV (1/3 EV steps))	
	Exposure Bracketing	Bracket: Cont., Bracket: Single, 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.	
	AE Lock	Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)	
	Exposure Modes	AUTO (iAuto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Movie (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M)), Slow & Quick Motion (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M))	
	ISO sensitivity (Recommended Exposure Index)	[Still images] Mechanical Shutter: ISO 100-51200 (ISO numbers up from ISO 50 to ISO 204800 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit), Electronic Shutter: ISO 100-25600 (ISO numbers up from ISO 50 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit) [Movies] ISO 100-51200 equivalent (ISO numbers up to ISO 102400 can be set as expanded ISO range.),AUTO (ISO 100-6400, selectable lower limit and upper limit)	[Still images] Mechanical Shutter: ISO 100-51200 (ISO numbers up from ISO 50 to ISO 204800 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit), Electronic Shutter: ISO 100-25600 (ISO numbers up from ISO 50 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit) [Movies] ISO 100-51200 equivalent (ISO numbers up to ISO 102400 can be set as expanded ISO range.),AUTO (ISO 100-12800, selectable lower limit and upper limit)
	Anti-flicker Shoot.	-	Yes*1
Viewfinder	Viewfinder Type	Quad-VGA OLED, 1.3 cm (0.5 type) electronic viewfinder (color)	
	Number of Dots	3,686,400 dots	
	Brightness Control (Viewfinder)	Auto/Manual (5 steps between -2 and +2)	
	Color Temperature Control	Manual (5 steps)	
	Field Coverage	100%	
	Magnification	approx. 0.78 x (with 50mm lens at infinity, -1m-1)	
	Diopter Adjustment	-4.0 to +3.0m-1	
	Eye Point	Approx. 23mm from the eyepiece lens, 18.5mm from the eyepiece frame at -1m-1 (CIPA standard)	
	Finder Frame Rate Selection	STD 60fps / HI 120fps	
	Display Content	Graphic Display, Display All Info., No Disp. Info., Digital Level Gauge, Histogram	

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LCD Screen	Type	7.5cm (3.0-type) TFT	
	Number of Dots	1,440,000 dots	
	Touch Panel	Yes	
	Brightness Control	Manual (5 steps between -2 and +2), Sunny Weather mode	
	Adjustable Angle	Up by approx. 107 degrees, Down by approx. 41 degrees	
	Display Selector (Finder/LCD)	Yes (Auto/Manual)	
	Real-time Image Adjustment Display (LCD)	On/Off	
	Quick Navi	Yes	
	Focus Magnifier	Yes (35mm full frame: 4.7x, 9.4x APS-C: 3.1x, 6.2x)	
	Zebra	Yes (selectable level + range or lower limit as custom setting)	
	Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: Red/Yellow/Blue/White)	
	Others	WhiteMagic, Grid Line, (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off), Movie Marker, (Center/Aspect/Safety Zone/Guideframe)	
	Display Contents	Graphic Display, Display All Info, No Disp. Info, Digital Level Gauge, Histogram, For viewfinder, Monitor Off	
Other Features	Clear Image Zoom	Still images: Approx. 2x, Movies: Approx. 2x	Still images: Approx. 2x, Movies: Approx. 1.5x (4K), Approx. 2x (HD)
	Digital Zoom	[Smart zoom (Still images)] 35mm full frame: M: approx 1.5x, S: approx 2x, APS-C: M: approx 1.3x, S: approx 2x, [Digital zoom (Still images)] 35mm full frame L: approx 4x, M: approx 6.1x, S: approx 8x, APS-C L: approx 4x, M: approx 5.2x, S: approx 8x, [Digital zoom (Movie)] 35mm full frame: approx 4x, APS-C: approx 4x	
	Face Detection	Modes: Face Priority in AF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off), Max. number of detectable: 8	
	Others	Interval recording, Touch Focus, Touch Pad, Touch Tracking, ISO AUTO Min. SS, Bright Monitoring, Copyright Info, Set File Name, Save/Import Settings, FTP Transfer Func., Help guide, Clock Function Setting, Area Setting, Shop Front Mode, Video Light Mode, Zoom Ring Rotate	
Shutter	Type	Electronically-controlled, vertical-traverse, focal-plane type	
	Shutter Type	Auto/Mechanical shutter/Electronic shutter	
	Shutter Speed	[Still images, Single shot]*2, Mechanical Shutter: 1/8000 to 30 sec, Bulb, AUTO: 1/32000 to 30 sec, Bulb, Electronic Shutter: 1/32000 to 30 sec,[Still images, Continuous shooting]*2, Mechanical Shutter: 1/8000 to 30 sec, AUTO and Electronic Shutter: 1/32000 to 1/8 sec, [Movies]: 1/8000 to 1/4 (1/3 steps) up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)	
	Flash Sync. Speed*3	1/250 sec.	
	Electronic Front Curtain Shutter	Yes (ON/OFF)	
	Silent Shooting	Yes (Electronic Shutter)	
Image Stabilization	Type	Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)	
	Compensation Effect	5.0 stops (based on CIPA standard. Pitch/Yaw shake only. With Planar T* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)	5.5 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)
Flash Control	Control	Pre-flash*10 TTL	
	Flash Compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)	
	Flash Bracketing	3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, 1.0 EV increments.	
	Flash Modes	Flash off, Autoflash, Fill-flash, Slow Sync., Rear Sync., Red-eye reduction (on/off selectable), Wireless*11, Hi-speed sync*12.	

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Flash Control	External Flash Compatibility	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe	
	FE Level Lock	Yes	
	Wireless Control	Yes (Light signal: Available with Fill-flash, Slow Sync., Hi-speed sync. /Radio signal: Available with Fill-flash, Rear Sync., Slow Sync., Hi-speed sync.)	
Drive	Drive Modes	Single Shooting, Continuous shooting (Hi/Mid/Lo selectable), Self-timer, Self-timer (Cont.), Bracket: Single, Bracket: Cont., White Balance bracket, DRO bracket	
	Continuous Drive Speed (approx. max.)*6	AUTO/Electronic Shutter: Continuous shooting: Hi: max. 20 fps, Mid: max. 10fps, Lo: max. 5 fps*7 *8 *9, Mechanical Shutter: Continuous shooting: Hi: max. 5 fps, Mid: max. 5fps, Lo: max. 2.5 fps	AUTO/Electronic Shutter: Continuous shooting: Hi: max. 20 fps, Mid: max. 10fps, Lo: max. 5 fps*7 *8 *9, Mechanical Shutter: Continuous shooting: Hi: max. 10 fps, Mid: max. 8 fps, Lo: max. 3 fps
	No. of recordable frames (approx.)*6	362 frames (JPEG Extra fine L), 362 frames (JPEG fine L), 362 frames (JPEG standard L),241 frames (RAW), 222 frames (RAW & JPEG L), 128 frames (RAW Uncompressed)), 118 frames (RAW Uncompressed)& JPEG)	361 frames (JPEG Extra fine L), 361 frames (JPEG fine L), 361 frames (JPEG standard L),239 frames (RAW), 226 frames (RAW & JPEG L), 131 frames (RAW Uncompressed), 120 frames (RAW Uncompressed)& JPEG)
	Self-Timer	10 sec. delay/5 sec. delay/2 sec. delay/Continuous self-timer (3 frames after 10 sec. delay/5 frames after 10 sec. delay/3 frames after 5 sec. delay/5 frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer (Off/2 sec. delay/5 sec. delay/10sec. delay)	
Playback	Photo Capture	Yes	
	Modes	Single (with or without shooting information Y RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (L: 15.0x, M: 9.84x, S: 7.52x), Auto Review (10/5/2 sec.Off), Image orientation (Auto/Manual/Off selectable), Slideshow, Folder selection (Date/ Still/AVCHD/XAVC S HD/XAVC S 4K), Forward/Rewind (movie), Delete, Protect, Rating, Display as Group	Single (with or without shooting information Y RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (L: 15.0x, M: 9.84x, S: 7.52x), Auto Review (10/5/2 sec.Off), Image orientation (Auto/Manual/Off selectable), Slideshow, Folder selection (Date/ Still/AVCHD/XAVC S HD/XAVC S 4K), Forward/Rewind (movie), Delete, Protect, Rating, Display as Group, Voice Memo
Interface	PC Interface	Mass-storage, MTP, PC remote	
	Multi / Micro USB Terminal*10	Yes	
	USB Type-C™ Terminal	-	Yes (SuperSpeed USB (USB 3.2 Gen 1) compatible)
	NFC™	Yes (NFC forum Type 3 Tag compatible), One-touch remote, One-touch sharing	
	Wireless LAN (Built-In)	Yes (Wi-Fi compatible, IEEE 802.11b/g/n (2.4GHz band))*17, View on Smartphone: Yes, Remote control via Smartphone: Yes, Send to Computer: Yes, View on TV: Yes	Yes (Wi-Fi compatible, IEEE 802.11a/b/g/n/ac (2.4GHz band/5GHz band))*17*12, View on Smartphone: Yes, Remote control via Smartphone: Yes, Send to Computer: Yes, View on TV: Yes
	Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))	
	HD Output	HDMI micro connector (Type-D), BRAVIA Sync(Control for HDMI), PhotoTV HD, 4K movie output/4K still image PB	
	Multi Interface Shoe*13	Yes	Yes (with Digital Audio Interface)
	Mic Terminal	Yes (3.5 mm Stereo minijack)	
	Remote Control	Yes (IR remote control/Bluetooth remote control)	
	Sync Terminal	Yes	
	Headphone Terminal	Yes (3.5 mm Stereo minijack)	
	Vertical Grip Connector	Yes	
	PC Remote	Yes	
	LAN Terminal	Yes (100BASE-TX, 10BASE-T)	Yes (1000BASE-T, 100BASE-TX,10BASE-T)

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Audio	Microphone	Built-in stereo microphone	
	Speaker	Built-in, monaural	
Print	Compatible Standards	Exif Print, Print Image Matching III, DPOF setting	
Custom function	Type	Custom key settings, My Menu, My Dial Settings, Reg Cust Shoot Set, Programmable Setting (Body 3 sets /memory card 4 sets)	
Lens Compensation	Setting	Peripheral Shading, Chromatic Aberration, Distortion	
Power	Supplied Battery	One rechargeable battery pack NP-FZ100	
	Battery Life (Still Images)*14	Approx. 480 shots (Viewfinder) / Approx. 650 shots (LCD monitor) (CIPA standard)	Approx. 500 shots (Viewfinder) / Approx. 690 shots (LCD monitor) (CIPA standard)
	Battery Life (Movie, actual recording)*15	Approx. 105 min (Viewfinder) / Approx. 120 min (LCD monitor) , (CIPA standard)*16	Approx. 110 min (Viewfinder) / Approx. 120 min (LCD monitor), (CIPA standard)
	Battery Life (Movie, continuous recording)	Approx. 185 min (Viewfinder) / Approx. 195 min (LCD monitor), (CIPA standard)*16*17	Approx. 195 min (Viewfinder) / Approx. 200 min (LCD monitor), (CIPA standard)
	Internal battery charge	Yes	Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)
	USB Power supply	Yes	Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)
Size & Weight	Weight (with battery and memory card included)	Approx. 673 g (approx. 1 lb 7.7 oz)	Approx. 678 g (approx. 1 lb 8.0 oz)
	Weight (Body only)	Approx. 588 g (approx. 1 lb 4.7 oz)	Approx. 593 g (approx. 1 lb 5.0 oz)
	Dimensions (W x H x D)	Approx. 126.9mm x 95.6mm x 73.7mm (approx. 5 x 3 7/8 x 3 in.)	Approx. 128.9mm x 96.4mm x 77.5mm (approx. 5 1/8 x 3 7/8 x 3 1/8 in.)
Operating Temperature	Range	32°- 104°F / 0 - 40°C	
What's in the box		Power cord, Rechargeable Battery NP-FZ100, Cable Protector, Battery Charger BC-QZ1, Shoulder strap, Body cap, Accessory shoe cap, Eyepiece cup, Micro USB cable	Power cord, Rechargeable Battery NP-FZ100, Cable Protector, Battery Charger BC-QZ1, Shoulder strap, Body cap, Accessory shoe cap, Eyepiece cup, USB Type-C™ cable

Specifications and features are subject to change without notice.

*1 Anti-flicker Shooting is not available when the [Shutter Type] setting in the [Shutter/SteadyShot] menu is set to [Electronic Shut.]. If [Shutter Type] is set to [Auto] and [Anti-flicker shoot.] is [ON], the mechanical shutter will automatically be activated to enable Anti-flicker Shooting during continuous shooting.
*2 1/32000-th shutter speed is available only in the S and M modes (there are no intermediate settings between 1/16000 and 1/32000). The highest shutter speed in all other modes is 1/16000.
*3 With compatible Sony external flash
*4 A flash cannot be used when [Shutter Type] is set to [Electronic Shut.]. A flash can be used during continuous shooting with [Shutter Type] set to [Auto]. The mechanical shutter will be used.
*5 With compatible external flash
*6 Varies according to shooting conditions or memory card used.
*7 When A-mount lens is used via mount adaptor, the speed of continuous shooting varies depending on the attached lens.
*8 When the Focus Mode is set to AF-C (Continuous AF), the speed of continuous shooting varies depending on the attached lens. See Sony support page for compatibility details.
*9 During uncompressed RAW shooting, 12 images are shot per second at maximum.
*10 Supports Micro USB compatible device.
*11 [Configuration method/Access method] WPS or manually / infrastructure mode. When connecting to smartphones, the camera can always work as a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK)
*12 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.
*13 Sony accessories for the Accessory Shoe can be attached.
*14 The LCD screen is turned on, shot once every 30 seconds, operate zoom alternately between W and T ends, flash strobe once every two times, turn power off and on once every ten times.
*15 Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom, stand-by and power off.
*16 Continuous movie recording is possible for approximately 29 minutes (limited by product specifications).
*17 The total movie recording time. When the limit of the continuous movie recording time (29 minutes) is reached, let the camera continue movie recording by pressing the MOVIE button again. No other operation such as zoom are performed.

Sony | Accessory Support Page:
https://www.sony.net/dics/acc/

Sony | Photo Gallery:
http://www.sony.net/Products/di_photo_gallery/

Sony | Camera Channel:
https://www.youtube.com/c/ImagingbySony

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