SONY

ILCE7CM2/B

Alpha 7C II – Full-frame Interchangeable Lens Hybrid Camera

Uniquely compact and lightweight, the α7C II is the full-frame camera that serious creators have been waiting for. Packed with cutting-edge capture technology for both stills and movies, it's the essential tool for capturing the world the way you want to.

Bullets

- Incredibly compact and lightweight, packed with full-frame performance
- 33.0MP[1] full-frame Exmor R™ back-illuminated CMOS sensor
- BIONZ XR™ processing power for exceptional image quality
- Dedicated AI Processor for advanced subject recognition and tracking
- Outstanding 4K 4:2:2 10-bit movie recording up to 60p/50p [7,8]
- Advanced 5-axis optical image stabilization with up to 7-steps [5] of compensation
- Active Mode[11] image stabilization supports handheld movie shooting
- Consistently accurate exposure and color with new AE algorithm
- High resolution XGA OLED electronic viewfinder with 120fps display
- Compatible with more than 70 E-mount lenses offer boundless creativity
- Creative Look with 10 customizable presets to realize your vision
- Selectable RAW file types and JPEG Light quality setting
- Continuous still shooting at up to 10 fps [19] with AF/AE tracking
- Advanced movie recording formats for simpler post-production
- Log recording and LUT handling for powerful creative possibilities
- S-Cinetone™ for a cinematic look without the need for post processing
- Breathing compensation for movies with a consistent angle of view [13]
- AI-based Auto Framing [16] automatically adjusts framing to highlight your subject
- In-camera Time-lapse[26] creation to capture unforgettable moments
- Wide-area, high-density autofocus with 759 phase detection AF points [18]
- Tenacious Real-time Tracking [15] lets you concentrate on composition
- AI-based Human pose estimation for accurate subject recognition
- Reliable recognition of a wider range of subjects
- Accurate autofocus in low light situations as dim as EV -4.0
- Full-time Direct Manual Focus (DMF) [24] for quick access to manual adjustment
- Focus bracketing[25] to create images with incredible depth of focus
- Focus Map and Peaking display assist for shooting video
- Flicker suppression[29] from artificial lighting for stills and movie recording
- Smooth and simple selection of recording modes
- Stable, comfortable grip for handheld shooting
- Enhanced shooting flexibility with vari-angle LCD monitor
- Easy to use, intuitive touch operations on LCD panel

- Improved menu structure for quick access to frequently used menu items
- Multi Interface (MI) shoe with digital audio interface for optional accessories
- Image sensor anti-dust system
- USB PD (Power Delivery) supports fast charging
- Durable magnesium alloy chassis
- Dust and moisture resistant design [20]
- Easy and stable smartphone connectivity with Sony's Creators' App [17]
- Stream high-quality live content via UVC/UAC w/internal recording
- Fast Wi-Fi for PC tethering
- Creators' Cloud platform
- Accessible technology on Alpha cameras
- Sony's Road to Zero Plan

Features

Incredibly compact and lightweight, packed with full-frame performance

Compact and lightweight, the α7C II is the full-frame camera that serious creators have been waiting for. Packed with cutting-edge capture technology for both stills and movies, it's the essential tool for capturing the world the way you want to.

33.0MP[1] full-frame Exmor R™ back-illuminated CMOS sensor

Delivering outstanding performance and excellent image quality for both stills and movies, the α7C II's new 33.0 megapixel[1] Exmor R™ CMOS image sensor provides high-speed readout, high sensitivity from ISO 100 to ISO 51200[2], low noise, and highly accurate color reproduction.

BIONZ XR™ processing power for exceptional image quality

The advanced BIONZ XR processing engine delivers up to eight times [3] more processing power than its predecessor. It minimizes processing latency while boosting movie and still image processing power, achieving natural gradations, realistic color, low noise, superior image quality and fast menu response.

Dedicated AI Processor for advanced subject recognition and tracking

The α7C II is equipped with an AI processing unit that can handle significant amounts of data, enabling more accurate recognition and tracking of subjects and recognition of a wider range of subject types.

Outstanding 4K 4:2:2 10-bit movie recording up to 60p/50p[7,8]

The α7C II offers 4K 60p/50p movie capture [7,8] with full pixel readout and no pixel binning, taking advantage of the latest BIONZ XR processing engine and its wide dynamic range to produce exceptionally smooth images of fast-moving subjects. When recording 4K movies at 30p, full-frame 7K oversampling delivers 4K with enhanced clarity and detail.

Advanced 5-axis optical image stabilization with up to 7-steps[5] of compensation

Enjoy even more stable handheld shooting for stills, thanks to the α7C II's high-precision image stabilization unit, advanced gyro sensors, and optimized image stabilization algorithms that effectively correct 7.0-steps[5] of camera shake. Compatible lenses with built-in image

stabilization[6] combine with improved synchronization between the body and lens to make framing easier even at telephoto focal lengths that can otherwise cause a large amount of blur.

Active Mode[11] image stabilization supports handheld movie shooting

Active Mode provides enhanced image stabilization for handheld shooting. A precision image stabilisation unit, advanced gyro sensors, and an optimized image stabilisation algorithm work together for exceedingly smooth, stable movie footage. In addition to in-body stabilization, compatible lenses with their own built-in image stabilization[12] coordinate with the camera body for highly effective control, enabling handheld telephoto shots with greater clarity.

Consistently accurate exposure and color with new AE algorithm

Employing the latest processing engine combined with an advanced AE algorithm, the α7C II can detect the skin area of faces and adjust exposure accordingly for both stills and movies. It achieves consistent exposure control even in challenging shooting conditions when the subject is backlit, in shadows or direct sunlight, or not directly facing the camera.

High resolution XGA OLED electronic viewfinder with 120fps display

A 2.36 million-dot (approx.) XGA OLED electronic viewfinder with 0.70x magnification delivers high resolution and contrast for clear viewing, even in bright sunlight. The finder frame rate can be set to [High] (120 fps), twice the normal frame rate, for a smooth viewfinder image with minimum display motion blur when tracking and shooting moving subjects.

Compatible with more than 70 E-mount lenses offer boundless creativity

The α7C II is compatible with Sony's extensive lineup of optically advanced E-mount lenses, including the G Master™ series that blends breathtaking resolution with exquisite bokeh, and the G Lens™ series with excellent image quality and smooth bokeh. Compact and lightweight, these lenses offer a wide range of photographic and videographic applications.

Creative Look with 10 customizable presets to realize your vision

Set the visual mood with Creative Look, which offers 10 customizable presets so you can capture the world the way you want. Either use the presets as they are or adjust eight parameters, including contrast, saturation, and shadows[4], to create shareable stills and movies in-camera without the need for post-production editing.

Selectable RAW file types and JPEG Light quality setting

Lossless RAW image compression provides efficient compression for smaller file sizes with no loss in image quality, enabling the camera to shoot up to 27 frames in continuous bursts. There are three lossless-compression image sizes (S/M/L) to suit any application, and a Light image quality selection that generates less data is provided for JPEG and HEIF images.

Continuous still shooting at up to 10 fps[19] with AF/AE tracking

The α7C II's mechanical and electronic shutters allow continuous shooting at up to 10 fps, or up to 8 fps[19] in live view mode, making it easier to capture the most photogenic moments and expressions with moving subjects.

Advanced movie recording formats for simpler post-production

In-camera 10-bit 4:2:2 recording is available when using Long GOP or All-Intra compression [9], making it possible to color grade for fuller, more natural gradations while generally providing greater editing freedom.

Log recording and LUT handling for powerful creative possibilities

The α7C II boasts an S-Log3 gamma curve that emphasizes gradation characteristics from shadows to mid-grey (18% grey), achieving 14+ stops of latitude[10]. S-Gamut3 and S-Gamut3.Cine color gamut settings are also provided. You can apply a custom LUT (Look Up Table) with a Log gamma curve to preview how the footage will look in post-production, or to even record footage conveniently with a PP LUT already applied.

S-Cinetone™ for a cinematic look without the need for post processing

Utilizing the same color science from Sony's highly regarded Cinema Line, S-Cinetone delivers natural mid-tones that are essential to healthy-looking skin tones, plus soft colors and gorgeous highlights straight from the camera without post processing.

Breathing compensation for movies with a consistent angle of view[13]

With the breathing compensation function turned on, the α7C II employs Sony's original Clear Image Zoom technology to suppress focus breathing, enabling professional-quality rack and refocusing. Breathing metadata can also be used with the advanced breathing compensation capabilities of the latest Catalyst Browse/Prepare Plugin software during post-production.

AI-based Auto Framing[16] automatically adjusts framing to highlight your subject

Using AI-based subject recognition technology, Auto Framing automatically crops for optimum framing when shooting movies. Even when the camera is mounted on a tripod, the framing is continually adjusted so that the recorded footage looks like the subject was being followed by a camera operator. Accurate tracking is possible even when the camera is being operated remotely via the Creators' App[17] on a smartphone.

In-camera Time-lapse[26] creation to capture unforgettable moments

The in-camera time-lapse function allows you to create time-lapse videos within the camera itself. The exposure interval[27] can be set from 1 second to 60 seconds, making it easy to compress slow action into enjoyable time-lapse sequences. When a compatible video light (sold separately) is attached to the camera, it can be set to turn on just before each exposure so that time-lapse sequences can be shot in low-light settings.

Wide-area, high-density autofocus with 759 phase detection AF points[18]

The α7C II uses up to 759 phase detection points [18] in a high-density array that cover approximately 94% of the image area when shooting stills, enabling it to recognize the subject even when they only occupy a small area of the frame.

Tenacious Real-time Tracking[15] lets you concentrate on composition

The α7C II boasts greatly improved AI-based subject recognition, offering higher tracking reliability in a wider range of shooting situations. Specify a subject and half-press the shutter button to get the camera to start tracking, leaving you free to concentrate on framing and

composition.

AI based Human pose estimation for accurate subject recognition

With its innovative AI processing unit, the α7C II can accurately recognize human movement, achieving significant improvement in human eye recognition. Its human pose estimation technology uses a skeleton-based model, enabling it to recognize not just eyes, but also body and head positions with high precision, so it can even lock onto and track a subject facing away from the camera or with their face partially obscured.

Reliable recognition of a wider range of subjects

The α7C II features a powerful AI processing unit, capable of human, animal, bird, insect, car/train and airplane[14] recognition. Animal recognition now recognizes the eyes of some grazing and small animals, in addition to the eyes and heads of dogs, cats and similarly featured animals. It can even recognize these animals when their eyes are obscured from view. The camera also features bird recognition, enabling it to pinpoint the eyes of a variety of bird types as well as recognizing birds' heads and bodies.

Accurate autofocus in low light situations as dim as EV -4.0

Equipped with the latest AF algorithms, the α7C II achieves high AF precision down to light levels as low as EV -4.0 in AF-S mode (ISO 100 equivalent, F2.0 lens). It also includes a Focus Priority mode that provides more reliable AF in low light or when using smaller apertures.

Full-time Direct Manual Focus (DMF)[24] for quick access to manual adjustment

When shooting stills with AF-C or AF-S autofocus, the lens's focus ring can be rotated to instantly switch to manual focus mode at any time. This makes it easy to switch focus to a different subject on the fly.

Focus bracketing[25] to create images with incredible depth of focus

The α7C II can automatically shoot up to 299 images with sequentially shifted focus points according to intervals and a sequence specified by you. Pick the perfect shot, or post-process multiple shots to achieve creative composites with incredible depth of focus.

Focus Map and Peaking display assist for shooting video

Movie making is made simpler with the Focus Map[28] function that allows you to visualize depth of field when recording video. Focus information is overlaid on the live view display in real time so that you can easily identify the in-focus and out-of-focus areas — particularly useful when shooting with a large-aperture to create a narrow depth of field. The camera also offers peaking display, making it possible to check auto and manual focus while recording.

Flicker suppression[29] from artificial lighting for stills and movie recording

Suppress flicker from artificial lighting whether you're shooting stills or movies. Simply select "Anti-flicker Shoot", or use "Var. Shutter" to fine-tune shutter speeds to match pulsing frequency of some light sources which can cause visible interference when filming.

Smooth and simple selection of recording modes

The α7C II features a new Still/Movie/S&Q dial, allowing fast, independent selection. It's

conveniently located next to the mode dial, which can then be used to easily select the exposure mode and other key settings for each shooting mode.

Stable grip for handheld shooting

The α7C II is designed to give you a secure, stable and comfortable hold. Or attach the new GP-X2 removable grip extension (sold separately) for maximum comfort and minimum fatigue during long shooting sessions.

Enhanced shooting flexibility with vari-angle LCD monitor

The α7C II features a large 3.0-type 1.03 million-dot (approx.) touch-panel LCD monitor with a 3:2 aspect ratio and side-opening vari-angle flexibility. This allows greater positioning and framing freedom, giving you plenty of creative options for handheld and gimbal-mounted shooting of stills and movies.

Easy to use, intuitive touch operations on LCD panel

Simply swipe in from the left or right edge of the shooting display to reveal touch icons that allow quick changes to the shooting mode and more. You can now long-press menu items to register them to My Menu for quick access as needed, making the camera even more easily customizable.

Improved menu structure for quick access to frequently used menu items

The α7C II features a Main Menu structure with a logical layout which provide more efficient access to important shooting parameters, such as frame rate, shutter speed, and more. It can be assigned to a custom key for quick access when needed, and touch operation means that adjusting key settings has never been faster.

Multi Interface (MI) shoe with digital audio interface for optional accessories

A variety of high-performance compatible microphones can be connected to the camera's Multi Interface Shoe for direct, noise-free digital audio transfer to the camera. Or choose from a variety of high-output flash units such as the HVL-F60RM2 that support high-speed continuous shooting, giving you even more ways to capture creative imagery.

Image sensor anti-dust system

The camera is equipped with an anti-dust system through a charge protection coating on its optical filter and an image sensor shift mechanism. There's also a [Shutter When Power Off] function that closes the shutter when the camera's power is turned off, protecting the image sensor from dust and particles while changing lenses.

USB PD (Power Delivery) supports fast charging

USB PD (Power Delivery) is supported for fast in-camera battery charging, supplying 3 to 4 times more power than previous models. A USB charger or mobile battery that supports USB PD can be connected to the camera's USB Type-C® port so you can undertake extended shoots with ample power supply.

Durable magnesium alloy chassis

Built for reliability in professional working environments, the α7C II is protected by a lightweight, high-rigidity magnesium alloy used for the top cover, front cover, internal frame, and rear cover.

Dust and moisture resistant design

The α7C II is well sealed at critical buttons and dials, and interlocking body seams add double protection, providing excellent resistance to dust and moisture in challenging outdoor conditions[20].

Easy and stable smartphone connectivity with Sony's Creators' App[17]

Connection stability when transferring images from the camera to the Creators' App mobile application[17] on a smartphone has been greatly improved. Transfers continue in the background even if the smartphone display sleeps or a different app is launched[21]. Workflow from shooting to sharing has been notably improved overall.

Stream high-quality live content via UVC/UAC w/internal recording

Connected to a personal computer or smartphone [22] via USB, the α7C II can function as a 4K (2160p) webcam. Large-aperture lenses, narrow depth of field, and bokeh can be used to create striking images, and advanced AF functions such as Eye AF support online meetings and live streaming events. You can even record your livestream in the camera.

Fast Wi-Fi for PC tethering

Built-in Wi-Fi (IEEE 802.11a/b/g/n/ac) allows communication on the 2.4 GHz and 5 GHz [30] bands for fast and stable data transfer.

Creators' Cloud platform[17]

Creators' Cloud is a platform that supports creative work from shooting to production by combining advanced Sony camera technology with cloud-based AI. It's also a place for discovery and collaboration with other creators around the world. Explore web, mobile, and PC-based apps providing efficient solutions that integrate cameras with shooting and production apps and services.[17]

Accessible technology on Alpha cameras

Sony's Alpha cameras are equipped with a number of accessibility features so that as many people as possible can utilize and enjoy our technology. For example, the screen reader function reads text on the menu screens aloud, with volume and reading speed adjustable as needed.

Specification

Audio	
MICROPHONE	Built-in, stereo
SPEAKER	Built-in, monaural
Lens Compensation	
SETTING	Shading, Chromatic Aberration, Distortion, Breathing (Movie)
Drive	

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CONTINUOUS DRIVE SPEED (APPROX. MAX.)	Hi+: 10 fps [5]
NO. OF FRAME RECORDABLE (APPROX.)	JPEG Extra fine L: 88 frames [5], JPEG Fine L: over 1000 frames [5], JPEG Standard L: over 1000 frames [5], RAW: 44 frames [5], RAW & JPG: 35 frames [5], RAW (Lossless Compressed): 27 frames [5], RAW (Lossless Compressed) & JPEG: 20 frames [5], RAW (Uncompressed): 18 frames [5], RAW (Uncompressed) & JPEG: 1 6 frames [5]
PIXEL SHIFT MULTI SHOOTING	-

Playback

MODES	Enlarged display mode, Protect, Rating, Shot Mark (Movie), Divider Frame, Crop, Photo Capture

Accessibility

FUNCTIONS	Screen Reader, Focus Magnifier, Focus Map (Movie), Peaking Display, Subject Recognition in AF ,Touch Focus, Touch Tracking, Touch Shutter, Touch AE, Vari-angle LCD screen, Custom function, Enlarge Menu Screen

Exposure Control

METERING TYPE	1200-zone evaluative metering
EXPOSURE COMPENSATION	+/- 5.0 EV (1/3 EV, 1/2 EV steps selectable)
ISO SENSITIVITY	Still images: ISO 100 - 51200 (expandable to ISO 50 - 204800), AUTO (ISO 100 - 12800, selectable lower limit and upper limit), Movies: ISO 100 -51200 equivalent (expandable to ISO 100 - 102400), AUTO (ISO 100 - 12800, selectable lower limit and upper limit)
ANTI-FLICKER SHOOT.	Yes[3]
METERING SENSITIVITY	EV-3 to EV20 (ISO100 equivalen t with F2.0 lens attached)

Flash

TYPE	-
GUIDE NO.	-
CONTROL	Pre-flash TTL

FLASH COMPENSATION	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
EXTERNAL FLASH COMPATIBILITY	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe
Focus System	
FOCUS TYPE	Fast Hybrid AF (phase-detectio n AF / contrast-detection AF)
FOCUS POINT	Still images: Max. 759 points (phase-detection AF), Movies: Max. 627 points (phase-detection AF)
RECOGNITION TARGET (STILL IMAGES)	Human, Animal, Bird, Insect, Car, Train, Airplane
RECOGNITION TARGET (MOVIES)	Human, Animal, Bird, Insect, Car, Train, Airplane
OTHER FEATURES	AF Track Sens. (Still), AF Subj. Shift Sensitivity (Movie), AF Transition Speed (Movie), Switch V/H AF Area, AF Area Regist., Circ. of Focus Point, Focus Map (Movie), AF Assist (Movie)
AF ILLUMINATOR	Yes (with Built-in LED type)
FOCUS SENSITIVITY RANGE	EV-4 to EV20 (ISO100 equivalent with F2.0 lens attached)
General	
CAMERA TYPE	Interchangeable lens digital camera
LENS MOUNT	E-mount
Image Sensor	
NUMBER OF PIXELS (TOTAL)	Approx. 34.1 megapixels
ANTI-DUST SYSTEM	Yes
Camera Section	
SENSOR TYPE	35mm full frame (35.9 x 23.9 mm), Exmor R CMOS sensor
NUMBER OF PIXELS (EFFECTIVE)	Still images: Approx. 33.0 megapixels max.[1], Movies: Approx. 27.6 megapixels max. [1]
COLOR TEMPERATURE RANGE	2500 K - 9900 K
Image Stabilization	
TYPE	Image sensor-shift mechanism with 5-axis compensation (compensation depends on lens specifications)

COMPENSATION EFFECT	7.0 stops (based on CIPA standard. Pitch/yaw shake only. With FE 50mm F1.2 GM lens mounted. Long exposure NR off.)
MODE	Still images: On / Off, Movie: Active / Standard / Off
Interface	
PC INTERFACE	Mass storage / MTP
MULTI / MICRO USB TERMINAL	–[6]
USB TYPE-C TERMINAL	Yes (SuperSpeed USB 5 Gbps (USB 3.2) compatible)
NFC	-
SYNC TERMINAL	-
WIRELESS LAN BUILT-IN	Yes (Wi-Fi Compatible, IEEE 802.11a/b/g/n/ac (2.4 GHz band/ 5 GHz band)) [7] [8] Yes (Wi-Fi Compatible, IEEE 802.11b/g/n (2.4 GHz band)) [9]
BLUETOOTH	Yes (Bluetooth Standard Ver. 4.2 (2.4 GHz band))
HDMI OUTPUT	HDMI micro connector (Type-D), 3840 x 2160 (59.94p / 50p / 29.97p / 25p / 23.98p) / 1920 x 1080 (59.94p / 50p / 23.98p) / 1920 x 1080 (59.94i / 50i), YCbCr 4:2:2 10bit / RGB 8bit
MULTI INTERFACE SHOE	Yes (with Digital Audio Interface) [10]
MIC TERMINAL	Yes (3.5 mm Stereo minijack)
HEADPHONE TERMINAL	Yes (3.5 mm Stereo minijack)
REMOTE CONTROL (WIRELESS)	Yes (Bluetooth remote control)
DC INPUT	-
FUNCTIONS	FTP Transfer Func. (Wired LAN (USB-LAN), USB Tethering, Wi-Fi), Send to smartphone, Remote control via smartphone, PC Remote
LCD Screen	
MONITOR TYPE	7.5 cm (3.0-type) type TFT
TOUCH PANEL	Yes
NUMBER OF DOTS	1 036 800 dots
ADJUSTABLE ANGLE	Opening Angle: Approx. 176 °, Rotation Angle: Approx. 270 °

Movie Function

SLOW & QUICK MOTION (SHOOTING FRAME RATE)	Yes
PROXY RECORDING	Yes
TC / UB	Yes
RAW OUTPUT	-

Recording System

MEMORY CARD SLOT	Slot for SD (UHS-I/II compliant) memory card

Other Features

OTHER FEATURES	Soft Skin Effect, Creative Look, Custom function, Picture Profile, Time-lapse, Auto Framing, My Image Style
CLEAR IMAGE ZOOM (STILL IMAGES)	Approx. 2x
CLEAR IMAGE ZOOM (MOVIES)	Approx. 1.5x (4K), Approx. 2x (HD)

Power

SUPPLIED BATTERY	One rechargeable battery pack NP-FZ100
BATTERY LIFE (STILL IMAGES)	Approx. 530 shots (Viewfinder) / Approx. 560 shots (LCD monit or) (CIPA standard)[12]
BATTERY LIFE (MOVIE, ACTUAL RECORDING)	Approx. 100 min (Viewfinder) / Approx. 105 min (LCD monitor) (CIPA standard) [13]
BATTERY LIFE (MOVIE, CONTINUOUS RECORDING)	Approx. 165 min (Viewfinder) / Approx. 165 min (LCD monitor) (CIPA standard)
INTERNAL BATTERY CHARGE	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)
USB POWER SUPPLY	Yes (Available with USB Type-C Terminal. USB Power Delivery compatible)
POWER CONSUMPTION WITH VIEWFINDER	Still images: Approx. 3.7 W (with FE 28-60mm F4-5.6 lens attached), Movies: Approx. 6.0 W (with FE 28-60mm F4-5.6 lens attached)
POWER CONSUMPTION WITH LCD SCREEN	Still images: Approx. 3.5 W (with FE 28-60mm F4-5.6 lens attached), Movies: Approx. 6.0 W (with FE 28-60mm F4-5.6 lens attached)

Recording (movie)

VIDEO COMPRESSION	XAVC S: MPEG-4 AVC/H.264, XAVC HS: MPEG-H HEVC/H.265

AUDIO RECORDING FORMAT	LPCM 2ch (48 kHz 16 bit), LPCM 2ch (48 kHz 24 bit) ², LPCM 4ch (48 kHz 24 bit) ²

Recording (still images)

RECORDING FORMAT	JPEG (DCF Ver. 2.0, Exif Ver. 2.3 2, MPF Baseline compliant), HEIF (MPEG-A MIAF compliant), RAW (Sony ARW 4.0 format compliant)
IMAGE SIZE (PIXELS) [3:2]	35mm full frame L: 7008 x 4672 (33 M), M: 4608 x 3072 (14 M), S: 3504 x 2336 (8.2 M)
IMAGE QUALITY MODES	RAW, JPEG, HEIF (4:2:0 / 4:2:2), RAW+JPEG, RAW+HEIF
14BIT RAW	YES

Recording System (movie)

MOVIE RECORDING FORMAT (XAVC HS 4K)	3840 x 2160 (4:2:0, 10bit) (Approx.): 59.94p (150Mbps / 75Mbps / 45Mbps), 50p (150Mbps / 75Mbps / 45Mbps), 23.98p (100 Mbps / 50Mbps / 30Mbps), 3840 x 2160 (4:2:2, 10bit) (Approx.): 59.94p (200Mbps / 100Mbps), 50p (200Mbps / 100Mbps), 23.98p (100Mbps / 50Mbps)
MOVIE RECORDING FORMAT (XAVC S-I HD)	1920 x 1080 (4:2:2, 10bit) (Approx.): 59.94p (222 Mbps), 50p (185 Mbps), 29.97p (111 Mbps), 25p (93 Mbps), 23.98p (89 Mbps)
MOVIE RECORDING FORMAT (XAVC S 4K)	3840 x 2160 (4:2:0, 8bit) (Approx.): 59.94p (150Mbps), 50p (150Mbps), 29.97p (100Mbps / 60 Mbps), 25p (100Mbps / 60Mbps), 23.98p (100Mbps / 60Mbps), 3840 x 2160 (4:2:2, 10bit) (Approx.): 59.94p (200Mbps), 50p (200Mbps), 29.97p (140Mbps), 25p (140Mbps), 23.98p (100 Mbps)
MOVIE RECORDING FORMAT (XAVC S HD)	1920 x 1080 (4:2:0, 8bit) (Approx.): 119.88p (100Mbps / 60Mbps), 100p (100Mbps / 60Mbps), 59.94p (50Mbps / 25Mbps), 50p (50Mbps / 25Mbps), 29.97p (50Mbps / 16Mbps), 25p (50Mbps / 16Mbps), 23.98p (50Mbps), 1920 x 1080 (4:2:2, 10bit) (Approx.): 59.94p (50Mbps), 50p (50Mbps), 29.97p (50Mbps), 25p (50Mbps), 23.98p (50Mbps)
MOVIE RECORDING FORMAT (XAVC S-I 4K)	3840 x 2160 (4:2:2, 10bit) (Approx.): 59.94p (600Mbps), 50p (500Mbps), 29.97p (300Mbps), 25p (250Mbps), 23.98p (240Mbps)

Shutter

SHUTTER TYPE	Mechanical shutter / Electronic shutter
SHUTTER SPEED	Still images (Mechanical shutter): 1/4000 to 30 s, Bulb, Still images (Electronic shutter): 1/8000 to 30 s, Movies: 1/8000 to 1 s
FLASH SYNC. SPEED	1/160 s (35mm full frame), 1/200 s (APS-C) [4]
ELECTRONIC FRONT CURTAIN SHUTTER	Yes

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USB Streaming

VIDEO DATA FORMAT	MJPEG, YUV420[1][1]
VIDEO RESOLUTION	3840 x 2160 (15p / 30p), 3840 x 2160 (12.5p / 25p), 1920 x 1080 (30p / 60p), 1920 x 1080 (25p / 50p), 1280 x 720 (30p), 1280 x 720 (25p)
AUDIO DATA FORMAT	LPCM 2ch (16bit 48 kHz)

Viewfinder

TYPE	1.0 cm (0.39 type) electronic viewfinder (XGA OLED)
NUMBER OF DOTS	2 359 296 dots
MAGNIFICATION	Approx. 0.70x (with 50 mm lens at infinity, -1 m-^{1})
DIOPTRE	-4.0 to +3.0 m-^{1}
EYE POINT	Approx. 22 mm from the eyepiece lens, 19.6 mm from the eyepiece frame at -1 m-^{1} (CIPA standard)
Finder Frame Rate Selection	NTSC mode: STD 60fps / HI 120fps, PAL mode: STD 50fps / HI 100fps

Size & Weight

WEIGHT (WITH BATTERY AND MEMORY CARD INCLUDED)	Approx. 514 g / Approx. 1 lb 2.2oz
BODY ONLY	Approx. 429 g / Approx. 0 lb 15.2 oz
DIMENSIONS (W X H X D)	Approx. 124.0 x 71.1 x 63.4 mm, Approx. 124.0 x 71.1 x 58.6 mm (from grip to monitor) / Approx. 5 x 2 7/8 x 2 1/2 inches, Approx. 5 x 2 7/8 x 2 3/8 inches (from grip to monitor)

Operating Temperature

OPERATING TEMPERATURE	0 - 40 ℃ / 32 - 104 °F

What's in the Box

Supplied Accessory	Rechargeable Battery NP-FZ100, Shoulder strap, Body cap, Accessory shoe cap

1. Approximate, effective
2. Expandable to ISO 50 and 204800 for stills.
3. Compared to the BIONZ X image processing engine. Sony tests.
4. Not including sharpness range and clarity.
5. CIPA standards. Pitch/yaw shake only. FE 50mm F1.2 GM lens. Long exposure NR off.
6. See Sony's support web page for information on compatible lenses:https://www.sony.net/dics/fnc1002/ A software update

may be required for some lenses. Stabilization effect may depend on the lens used.

7. Recording frame rates are listed as integer values, but the actual frame rates are as follows: 24p = 23.98 fps, 30p = 29.97 fps, 60p = 59.94 fps, and 120p = 119.88 fps.
8. QFHD (3840 x 2160). 4K 60/50p recording is only available in Super 35mm mode.
9. When XAVC S-I 4K or HD is selected via the file format menu.
10. S-Log3 recording. Sony tests.
11. Slight image crop in Active Mode. Active mode not available when recording movies at 120p (100p), or when recording in S&Q mode at 120p (100p).
12. See Sony's support web page for information on compatible lenses:https://www.sony.net/dics/fnc1002/ A software update may be required for some lenses. Stabilization effect may depend on the lens used.
13. Compatible lenses are listed at: https://support.d-imaging.sony.co.jp/support/ilc/breathing/en/ Angle of view and image quality may change slightly when this function is turned ON. Full compensation may not be possible with some lenses. This function is not available when shooting movies at 120p (100p), when using the S&Q mode at 120p (100p), or when shooting stills.
14. Available subject settings are: Human, Animal/Bird, Animal, Bird, Insect, Car/Train, and Airplane. Subject types other than the type specified may be erroneously recognized in some cases.
15. [Tracking] in the menu. Based on advanced artificial intelligence, including machine learning.
16. Only available for movies. Framing is cropped from 4K images, resulting in reduced angle of view.
17. Download app at Google Play and the App Store. Network services, content, and operating system and software subject to terms and conditions and may be changed, interrupted or discontinued at any time and may require fees, registration and credit card information. Check regional availability of services and applications via the URL https://www.sony.net/cca/
18. 759 AF measurement points for still images. The number of points used varies according to the shooting mode.
19. Up to 10 fps in continuous "Hi+" mode, or up to 8 fps in continuous "Hi" mode. Continuous shooting speed may vary depending on shooting conditions. Sony tests.
20. Not guaranteed to be 100% dust and moisture proof.
21. Transfer may be interrupted by the OS if another app is launched.
22. When streaming via USB maximum image resolution is 3840 x 2160 and maximum frame rate is 30 fps. The OS of the computer or smartphone used must be compatible with UVC/UAC. Use the most up-to-date OS available for your device. A commercially available USB cable and/or terminal adaptor may be used to connect to equipment with a USB Type-C® port. When connected via USB 2.0, maximum image resolution is HD (720p), and maximum frame rate is 30p.
23. Depending on the time of production, SORPLAS™ may not be used for some parts.
24. Not applicable to the E PZ 16-50mm F3.5-5.6 OSS and E 18-200mm F3.5-6.3 OSS LE lenses or any A-mount lens. Full-time DMF is not available when shooting continuously in AF-C or AF-A mode (not including Lo), or when using the FE 70-200mm F2.8 GM II OSS lens in AF-C mode.
25. A-mount lenses not supported.
26. Shooting time will vary according to conditions. Use the [Interval Timer] function to shoots sequences at long intervals (e.g. 10 minutes or more).
27. Maximum exposure interval is 6 seconds when shooting 4K.
28. The Focus Map function cannot be used in the following conditions: When the Focus Magnifier function is in use, when using digital zoom, during USB streaming, when no lens is mounted, when an A-mount lens is mounted, or when a lens that is not compatible with focal plane phase-detection AF is in use.
29. Only 100 Hz and 120 Hz flicker are detected. Continuous shooting speed may decrease. Phase-detection AF coverage is reduced. Flicker-free shooting is not available during silent shooting, BULB exposure, or movie recording.
30. 5 GHz communication may be restricted in some countries and regions.
31. Features and specifications are subject to change without prior notice.