

# SONY

## ILCE7CR/B

### Alpha 7CR – Full-frame Interchangeable Lens Hybrid Camera

Let your expectations be upended. A class-leading<sup>1</sup> astonishing Exmor R™ 61.0 MP<sup>2</sup> full-frame sensor, just like that of our acclaimed α7R V, now comes in an α7C series compact body. Don't allow a single detail to be missed, with the go-anywhere α7CR.



### Bullets

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- Unparalleled resolution in a compact and lightweight camera
- Full-frame 61.0-megapixel<sup>2</sup> Exmor R™ image sensor
- BIONZ XR™ processing power for exceptional image quality
- Dedicated AI Processor for advanced subject recognition and tracking
- Advanced 5-axis optical image stabilization with up to 7-steps<sup>5</sup> of compensation
- Pixel Shift Multi Shooting responds to changing conditions
- Consistently accurate exposure and color reproduction
- Mobility for advanced, high-performance movie recording<sup>17</sup>
- Active Mode<sup>23</sup> image stabilization supports handheld movie shooting
- High resolution XGA OLED electronic viewfinder with 120fps display
- Compatible with more than 70 E-mount lenses offering boundless creativity
- Creative Look with 10 customizable presets to realize your vision
- Selectable RAW file types, HEIF and JPEG Light quality setting
- Continuous shooting with AF/AE tracking at up to 8 fps<sup>14</sup>
- 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<sup>13</sup>
- AI-based Auto Framing<sup>16</sup> automatically adjusts framing to highlight your subject
- In-camera Time-lapse<sup>26</sup> creation to capture unforgettable moments
- Wide-area, high-density autofocus with 759 phase detection AF points<sup>18</sup>
- Tenacious Real-time Tracking<sup>15</sup> 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)<sup>24</sup> for quick access to manual adjustment
- Focus bracketing<sup>25</sup> to create images with incredible depth of focus
- Focus Map and Peaking display assist for shooting video
- Flicker suppression<sup>29</sup> 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

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- 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
- Easy and stable smartphone connectivity with Sony's Creators' App <sup>26</sup>
- 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

## Features

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### **Unparalleled resolution in a compact and lightweight camera**

The A7CR full-frame image sensor delivers fine subject detail in a compact, lightweight body. With a 61.0 effective megapixel, back-illuminated Exmor R™ CMOS image sensor – adapted from our acclaimed α7R V – it delivers extraordinary resolution into new spaces.

### **Full-frame 61.0-megapixel<sup>2</sup> Exmor R™ image sensor**

The back-illuminated sensor's noise reduction, gapless on-chip lenses, anti-reflection optical coating, elimination of the optical low-pass filter that is usually positioned in front of the sensor and other original technologies deliver high resolution, high sensitivity, low noise, and wide dynamic range.

### **BIONZ XR™ processing power for exceptional image quality**

The latest BIONZ XR image processing engine minimizes processing latency while boosting movie and still image processing power, delivering natural gradations, realistic color, low noise, superior image quality and fast menu response.

### **Dedicated AI Processor and Real-time Recognition for accurate subject tracking**

The AI processing unit supports recognition of human subjects using learned human form and pose data, and also recognition of non-human subjects such as animals, insects, and vehicles. This improves the performance of Real-time Recognition AF and Real-time Tracking and makes Fast Hybrid AF subject acquisition and tracking more precise and reliable over a wider area.

### **Advanced 5-axis optical image stabilization with up to 7-steps<sup>5</sup> of compensation**

A high-precision image stabilization unit, advanced gyro sensors, and optimized image stabilization algorithms effectively detect and correct camera shake. 7.0-step in-body optical image stabilization<sup>5</sup> is a huge advantage for handheld shooting. The new stabilization algorithm provides precise detection and control right down to the single-pixel level, taking full advantage of the sensor's 61.0-megapixel<sup>2</sup> resolution to bring out the finest subject details.

### **Pixel Shift Multi Shooting responds to changing conditions**



Pixel Shift Multi Shooting<sup>6</sup> uses the precision in-body image stabilization system to capture multiple pixel-shifted images that are later composited on a PC to achieve overwhelming resolution in a single image. 16-image composites with approximately 240.8 million pixels (19008 x 12672 pixels)<sup>7</sup> can be produced from data that is equivalent to approximately 963.2 million pixels.

### **Consistently accurate exposure and color reproduction**

The advanced AI processing unit achieves accurate white balance even where the subject is in shade. Skin tones, foliage and other materials are reproduced with natural colors under almost any lighting, with lifelike gradations such as highlight roll-off in portraits.

### **Mobility for advanced, high-performance movie recording<sup>17</sup>**

The α7CR offers highly detailed 4K movie capture with 6.2K oversampling<sup>18</sup>, plus the mobility required for gimbal or drone mounted shooting. It also features S-Cinetone™ for a cinematic look, Log shooting, Real-time Tracking with advanced subject recognition, Active Mode<sup>19</sup> image stabilization, breathing compensation<sup>20</sup>, and many more refinements.

### **Active Mode image stabilization supports handheld movie shooting<sup>23</sup>**

Active Mode<sup>23</sup> provides precision stabilization for movie shooting with advanced gyro sensors and an optimised algorithm. Camera shake is precisely detected and compensated for, with additional stabilization provided via compatible lenses<sup>24</sup> in sync with the camera body.

### **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**

Sony's lineup of optically advanced E-mount lenses features more than 70 models, including G Master™ series that blends breathtaking resolution with exquisite bokeh, and G Lens™ series with excellent image quality and smooth bokeh. These fine lenses are compact and lightweight, ideally matching E-mount bodies to create remarkably compact, mobile systems for a wide range of photographic and videographic applications.

### **Creative Look with 10 customizable presets to realize your vision**

The Creative Look feature provides 10 presets that can be used unmodified or edited to create a variety of "looks" that can help creators fine-tune the mood of their stills or movies. Either use the presets as they are or adjust eight parameters to create shareable content in-camera without the need for post-production editing.

### **Selectable RAW file types, HEIF and JPEG Light quality setting**

Lossless RAW image compression provides efficiency with no loss in image quality, allowing more images to be shot in continuous bursts. Three image sizes (L/M/S) can be selected to suit the application. M and S sizes have the same numbers of pixels (26M/15M) in full-frame and APS-C modes, allowing seamless switching while maintaining the same image resolution. A new



"Light" image quality selection, with smaller file sizes for easy sharing, is provided for JPEG and HEIF images.

### **Continuous shooting with AF/AE tracking at up to 8 fps<sup>14</sup>**

Continuous shooting with AF/AE tracking is possible at up to 8 fps with the mechanical shutter <sup>14</sup>, or 7 fps during silent shooting<sup>15</sup>, capturing even momentary movements or expression changes in exquisite detail. The power of the BIONZ XR engine allows continuous shooting of over 1000 JPEG images<sup>16</sup>, letting you capture every vital moment.

### **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 <sup>29</sup>, 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 α7CR features an S-Log3 gamma curve to maximize its 14+ stops of latitude <sup>22</sup>. S-Gamut3 and S-Gamut3. Cine color gamut settings are also provided for further post processing control, and user-selected LUTs (Look Up Table) can be applied to preview how processed footage will look 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 color science from Sony's highly regarded Cinema Line, Sony's S-Cinetone picture profile delivers more faithful color reproduction and skin tones, with natural mid-tones essential to healthy-looking skin, plus soft colors and gorgeous highlights, giving creators a cinematic look without the need for color grading.

### **Breathing compensation for movies with a consistent angle of view<sup>20</sup>**

Breathing compensation suppresses focus breathing (change in a lens's angle of view with changes in focus) when shooting movies. Sony's Clear Image Zoom is used to automatically maintain a consistent angle of view through focus changes with compatible lenses, for more stable images. Breathing metadata can also be used with the advanced breathing compensation capabilities of the latest Catalyst Browse/Prepare software application during post-production.

### **AI-based Auto Framing<sup>30</sup> 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<sup>26</sup> on a smartphone.

### **In-camera Time-lapse<sup>31</sup> 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<sup>32</sup> 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 693 phase detection AF points<sup>11</sup>**

The BIONZ XR engine and updated algorithms achieve notably improved Fast Hybrid AF performance. Up to 693 phase detection points<sup>11</sup> cover approx. 79% of the image area, accurately acquiring focus even when the subject is small. The  $\alpha$ 7CR includes both phase-detection and contrast-detection AF to ensure fast, stable focus acquisition even in single AF (AF-S) mode.

### **Tenacious Real-time Tracking<sup>10</sup> lets you concentrate on composition**

AI-based Real-time Tracking can be activated by specifying the subject and half-pressing the shutter button. The camera automatically tracks the subject, letting the user concentrate on framing and composition. Subject recognition performance and tracking reliability have been greatly improved across a wider range of shooting situations.

### **AI based Human pose estimation for accurate subject recognition**

With its innovative AI processing unit, the  $\alpha$ 7CR can use subject form data to accurately recognize movement, providing a significant improvement in human eye recognition. Human pose estimation technology recognizes not just eyes, but also body and head position with high precision. This makes it possible to lock onto and track a subject facing away from the camera or with their face partly obscured by a helmet or sunglasses, for example.

### **Reliable recognition of a wider range of subjects**

The AI processing unit supports recognition of more subject types<sup>9</sup> including the eyes of some grazing and small animals, in addition to the eyes and heads of dogs, cats. It can even recognize these animals when their eyes are obscured from view. A new combined Animal/Bird setting eliminates switching. The whole or the leading end of Cars/Trains and Airplanes, and the heads of Insects, are also recognized.

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

Equipped with the latest AF algorithms, the  $\alpha$ 7CR 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)<sup>12</sup> 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<sup>13</sup> to create images with incredible depth of focus**

The camera will automatically shoot up to 299 images with sequentially shifted focus points, with custom intervals and sequence specified by the user. Pick the perfect shot, or post-process multiple shots to achieve creative composites with impossible focus depth.

### **Focus Map<sup>33</sup> and Peaking display assist for shooting video**

Movie making is made simpler with the Focus Map<sup>33</sup> function that allows you to visualize depth of

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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<sup>34</sup> 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  $\alpha$ 7CR 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  $\alpha$ 7CR is designed to give you a secure, stable and comfortable hold. Or attach the new GP-X2 removable grip extension (supplied) for maximum comfort and minimum fatigue during long shooting sessions.

## **Enhanced shooting flexibility with vari-angle LCD monitor**

The  $\alpha$ 7CR 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  $\alpha$ 7CR 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<sup>®</sup> port so you can undertake extended shoots with ample power supply.

### **Durable magnesium alloy chassis**

Built for reliability in professional working environments, the α7CR 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<sup>35</sup> design**

The α7CR is well sealed at critical buttons and dials, and interlocking body seams add double protection, providing excellent resistance to dust and moisture<sup>35</sup> in challenging outdoor conditions.

### **Easy and stable smartphone connectivity with Sony's Creators' App<sup>26</sup>**

Connection stability when transferring images from the camera to the Creators' App mobile application<sup>26</sup> on a smartphone has been greatly improved. Transfers continue in the background even if the smartphone display sleeps or a different app is launched<sup>27</sup>. 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<sup>28</sup> via USB, the α7CR can function as a 4K (2160p) webcam. Large-aperture lenses, narrow depth of field, and bokeh can be used to great effect for online meetings and live streaming along with advanced AF functions such as Real-time Recognition AF. 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<sup>30</sup> bands for fast and stable data transfer.

### **Creators' Cloud platform**

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.

### **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

General	
CAMERA TYPE	Interchangeable lens digital camera
LENS MOUNT	E-mount
Camera Section	
SENSOR TYPE	35mm full frame (35.7 x 23.8 mm), Exmor R C MOS sensor
NUMBER OF PIXELS (TOTAL)	Approx. 62.5 megapixels
NUMBER OF PIXELS (EFFECTIVE)	Still images: Approx. 61.0 megapixels max. <sup>1</sup> , Movies: Approx. 50.8 megapixels max. <sup>1</sup>
COLOR TEMPERATURE RANGE	2500 K - 9900 K
Image Sensor	
ANTI-DUST SYSTEM	Yes
Recording (still images)	
RECORDING FORMAT	JPEG (DCF Ver. 2.0, Exif Ver. 2.32, MPF Baseline compliant), HEIF (MPEG-A MIAF compliant), RAW (Sony ARW 4.0 format compliant)
IMAGE SIZE (PIXELS) [3:2]	35mm full frame L: 9504 x 6336 (60 M), M: 6240 x 4160 (26 M), S: 4752 x 3168 (15 M)
14BIT RAW	Yes
IMAGE QUALITY MODES	RAW, JPEG, HEIF (4:2:0 / 4:2:2), RAW+JPEG, RAW+HEIF
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) <sup>2</sup> , LPCM 4ch (48 kHz 24 bit) <sup>2</sup>
Recording System (movie)	
MOVIE RECORDING FORMAT (XAVC HS 4K)	3840 x 2160 (4:2:0, 10bit) (Approx.): 59.94p (150Mbps / 75Mbps / 45Mbps), 50p (150 Mbps / 75 Mbps / 45 Mbps), 23.98p (100Mbps / 50Mbps / 30Mbps), 3840 x 2160 (4:2:2, 10bit) (Approx.): 59.94p (200Mbps / 100Mbps), 50p (200 Mbps / 100 Mbps), 23.98p (100Mbps/ 50Mbps)

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MOVIE RECORDING FORMAT (XAVC S 4K)	3840 x 2160 (4:2:0, 8bit) (Approx.): 59.94p (150Mbps), 50p (150Mbps), 29.97p (100Mbps / 60Mbps), 25p (100Mbps / 60 Mbps), 23.98p (100Mbps / 60Mbps), 3840 x 2160 (4:2:2, 10 bit) (Approx.): 59.94p (200Mbps), 50p (200M bps), 29.97p (140Mbps), 25p (140 Mbps), 23.98p (100Mbps)
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), 1920x 1080 (4:2:2, 10bit) (Approx.): 59.94p (50Mbps), 50p (50Mbps), 29.97p (50Mbps), 25p (50 Mbps), 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)
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)
<b>Movie Function</b>	
SLOW & QUICK MOTION (SHOOTING FRAME RATE)	Yes
PROXY RECORDING	Yes
TC / UB	Yes
RAW OUTPUT	Yes (HDMI)
<b>Recording System</b>	
MEMORY CARD SLOT	Slot for SD (UHS-I/II compliant) memory card
<b>Focus System</b>	
FOCUS TYPE	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
FOCUS POINT	Still images: Max. 693 points (phase-detection AF), Movies: Max. 693 points (phase-detection AF)
FOCUS SENSITIVITY RANGE	EV-4 to EV20 (ISO100 equivalent with F2.0 lens attached)
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)

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## Exposure Control

METERING TYPE	1200-zone evaluative metering
METERING SENSITIVITY	EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached)
EXPOSURE COMPENSATION	+/- 5.0 EV (1/3 EV, 1/2 EV steps selectable)
ISO SENSITIVITY	Still images: ISO 100 - 32000 (expandable to ISO 50 - 102400), AUTO (ISO 100 - 12800, selectable lower limit and upper limit), Movies:ISO 100 - 32000 equivalent, AUTO (ISO 100 -12800, selectable lower limit and upper limit)
ANTI-FLICKER SHOOT.	Yes <sup>3</sup>

## Viewfinder

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

## 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 °

## 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)

## 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

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FLASH SYNC. SPEED	1/160 s (35mm full frame), 1/200 s (APSC)
ELECTRONIC FRONT CURTAIN SHUTTER	Yes (ON/OFF)
<b>Image Stabilization</b>	
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
<b>Flash</b>	
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 $\alpha$ System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe
<b>Drive</b>	
CONTINUOUS DRIVE SPEED (APPROX. MAX.)	Hi+: 8.0 fps <sup>4</sup>
NO. OF FRAME RECORDABLE (APPROX.)	JPEG Extra fine L: 48 frames <sup>4</sup> , JPEG Fine L: 320 frames <sup>4</sup> , JPEG Standard L: over 1000 frames <sup>4</sup> , RAW: 36 frames <sup>4</sup> , RAW & JPG: 32 frames <sup>4</sup> , RAW (Lossless Compressed): 16 frames <sup>4</sup> , RAW (Lossless Compressed) & JPEG: 15 frames <sup>4</sup> , RAW (Uncompressed): 14 frames <sup>4</sup> , RAW (Uncompressed) & JPEG: 13 frames <sup>4</sup>
PIXEL SHIFT MULTI SHOOTING	Yes (4 shots / 16 shots) <sup>5 6</sup>
<b>Playback</b>	
MODES	Enlarged display mode, Protect, Rating, Shot Mark (Movie), Divider Frame, Crop, Photo Capture
<b>Accessibility</b>	
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
<b>Interface</b>	

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PC INTERFACE	Mass-storage / MTP
MULTI / MICRO USB TERMINAL	-
USB TYPE	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)) <sup>7 8</sup> , Yes (Wi-Fi Compatible, IEEE 802.11b/g/n (2.4 GHz band)) <sup>7</sup>
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) <sup>9</sup>
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
<b>USB Streaming</b>	
VIDEO DATA FORMAT	MJPEG, YUV420 <sup>10</sup>
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)
<b>Audio</b>	
MICROPHONE	Built-in, stereo
SPEAKER	Built-in, monaural
<b>Lens Compensation</b>	
SETTING	Shading, Chromatic Aberration, Distortion, Breathing (Movie)
<b>Power</b>	
SUPPLIED BATTERY	One rechargeable battery pack NP-FZ100

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BATTERY LIFE (STILL IMAGES)	Approx. 490 shots (Viewfinder) / Approx. 530 shots (LCD monitor) (CIPA standard) <sup>11</sup>
BATTERY LIFE (MOVIE, ACTUAL RECORDING)	Approx. 95 min (Viewfinder) / Approx. 100 min (LCD monitor) (CIPA standard) <sup>12</sup>
BATTERY LIFE (MOVIE, CONTINUOUS RECORDING)	Approx. 155 min (Viewfinder) / Approx. 155 min (LCD monitor) (CIPA standard) <sup>12</sup>
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. 4.0 W (with FE 28-60mm F4-5.6 lens attached), Movies: Approx. 6.3W (with FE 28-60mm F4-5.6 lens attached)
POWER CONSUMPTION WITH LCD SCREEN	Still images: Approx. 3.7 W (with FE 28-60mm F4-5.6 lens attached), Movies: Approx. 6.3 W (with FE 28-60mm F4-5.6 lens attached)
<b>Size &amp; Weight</b>	
BODY ONLY	Approx. 430 g / Approx. 0 lb 15.2 oz
WEIGHT (WITH BATTERY AND MEMORY CARD INCLUDED)	Approx. 515 g / Approx. 1 lb 2.2 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)
<b>Operating temperature</b>	
OPERATING TEMPERATURE	0 - 40 °C / 32 - 104 °F
<b>What's in the Box</b>	
Supplied Accessories	Rechargeable Battery NP-FZ100, Shoulder strap, Body cap, Accessory shoe cap, Grip extension

1. As of the August 2023 product announcement, based on a Sony survey of interchangeable-lens digital cameras with 35mm full-frame image sensors.
2. Approximate, effective.
3. Expandable to ISO 50 - 102400 for stills.
4. Sony test conditions. Still images.
5. Based on CIPA standard. Pitch/yaw shake only. With FE 50mm F1.2 GM lens mounted. Long-exposure Noise Reduction off.



6. The latest versions of Imaging Edge Desktop™ Viewer and Edit applications are required for compositing. Image compositing may not be successful if camera or subject movement causes blur. The use of a tripod is recommended, as is the use of PC tethered control or a remote commander. Uncompressed RAW and silent mode are automatically selected for Pixel Shift Multi Shooting. Some restrictions apply to flash and other devices.
7. Image size after compositing is approx. 60.2 million (9504 x 6336) pixels for 4-image shots, and approx. 240.8 million pixels (19008 x 12672) for 16-image shots.
8. 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.
9. 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.
10. [Tracking] in the menu. Based on advanced artificial intelligence, including machine learning.
11. 693 AF measurement points for still images. The number of points used varies according to the shooting mode.
12. 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 OSS lens in AF-C mode.
13. A-mount lenses not supported.
14. Up to 6 fps with AF/AE tracking when shooting with live view. Maximum continuous shooting speed depends on camera settings.
15. In continuous shooting mode "Hi+". Maximum continuous shooting speed depends on camera settings.
16. Maximum number of images depends on shooting conditions.
17. Recording frame rates are indicated as the closest integer values. The actual corresponding frame rates are as follows: 24p: 23.98 fps, 30p: 29.97 fps, 60p: 59.94 fps, and 120p: 119.88 fps.
18. When shooting Super 35mm at 30p or 24/25p.
19. Slight image crop in Active Mode. Active mode not available for 120p (100p) movie recording, or when recording in the S&Q mode at 120p (100p).
20. 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, when using the S&Q mode at 120p, or when shooting stills.
21. Angle of view is approx. 1.2x when shooting 4K 60/50p movies. 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.
22. S-Log3 recording. Sony internal tests.
23. Slight image crop in Active Mode. Active mode not available for 120p (100p) movie recording, or when recording in the S&Q mode at 120p (100p).
24. 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.
25. When subject recognition is ON during AF shooting. Face, eye, etc. recognition status can be monitored when subject recognition frame display is ON. Accurate focus may not be achieved in some situations.
26. 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/>
27. Transfer may be interrupted when a different app is launched on some operating systems.
28. 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.
29. When XAVC S-I 4K or HD is selected via the file format menu.
30. Only available for movies. Framing is cropped from 4K images, resulting in reduced angle of view.
31. Shooting time will vary according to conditions. Use the [Interval Timer] function to shoot sequences at long intervals (e.g. 10 minutes or more). Maximum exposure interval is 6 seconds when shooting 4K.
32. Maximum exposure interval is 6 seconds when shooting 4K.
33. 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.
34. 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.
35. Not guaranteed to be 100% dust- and moisture-proof.
36. Additional focus breathing compensation is available in post-production using the advanced breathing compensation capabilities of the latest Catalyst Browse/Prepare software application, processing metadata provided by the camera.
37. Features and specifications are subject to change without prior notice.

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