

Main specifications of **α6400**

General	Camera type	Interchangeable-lens digital camera
	Lens mount	E-mount
Image sensor	Type	APS-C type (23.5 x 15.6mm) Exmor CMOS sensor
	Number of pixels (effective)	Approx. 24.2 megapixels
	Number of pixels (total)	Approx. 25.0 megapixels
	Image sensor aspect ratio	3:2
	Anti-dust system	Yes
	RAW output	14 bit
Recording system (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 aspect ratio L: 6000 x 4000 (24M), M: 4240 x 2832 (12M), S: 3008 x 2000 (6.0M) 16:9 aspect ratio L: 6000 x 3376 (20M), M: 4240 x 2400 (10M), S: 3008 x 1688 (5.1M) 1:1 aspect ratio L: 4000 x 4000 (16M), M: 2832 x 2832 (8.0M), S: 2000 x 2000 (4.0M) Sweep Panorama Wide: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M), Standard: horizontal 8192 x 1856 (15M), vertical 3872 x 2160 (8.4M)
	Image quality modes	RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)
	Picture Effect	13 types: Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key, Soft Focus (High/Mid/Low), HDR Painting (High/Mid/Low), Rich-tone Monochrome, Miniature (Auto/Top/Middle (H)/Bottom/Right/Middle (V)/Left), Watercolor, Illustration (High/Mid/ Low)
	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))
	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
	Recording Format	XAVC S / AVCHD format Ver. 2.0 compliant
	Video compression	XAVC S: MPEG-4 AVC/H.264 AVCHD: MPEG-4 AVC/H.264
	Audio recording format	XAVC S: LPCM 2ch AVCHD: Dolby Digital (AC-3), 2ch, Dolby Digital Stereo Creator
Recording system (movies)	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 (24p, 50M), 1920 x 1080 (60p, 25M), 1920 x 1080 (30p, 16M) AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH) 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
	Picture Profile	Yes (Off / PPI-PPI0) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 (800%), S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
	Movie functions	Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Proxy Recording (1280 x 720 (Approx. 9Mbps)), TC/UB (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec), Auto Slow Shutter, REC control, Clean HDMI Info. (ON/OFF selectable), Gamma Disp. Assist
	Color space	xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color
	Clean HDMI output	3840 x 2160 (30p), 3840 x 2160 (25p), 3840 x 2160 (24p), 1920 x 1080 (60p), 1920 x 1080 (60i), 1920 x 1080 (50p), 1920 x 1080 (50i), 1920 x 1080 (24p), YCbCr 4:2:2 8bit / RGB 8bit
	Media	Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I compliant), microSD memory card, microSDHC memory card, microSDXC memory card
	Slot	Multi slot for Memory Stick Duo/ SD memory card
	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	Multi Frame NR	Auto/ ISO 100 to 102400
	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-step), A7 to B7 (29-step)) / Custom
	AWB micro adjustment	G7 to M7 (57-step), A7 to B7 (29-step)
	Priority Set in AWB	Yes
	Shutter AWB lock	Yes (Shut. Halfway Down/ Cont. Shooting/ Off)
	Bracketing	3 frames, H/L selectable
Focus system	Type	Fast Hybrid AF (phase-detection AF/contrast-detection AF) ^{*1}
	Focus point	425 points (phase-detection AF) / 425 points (contrast-detection AF)
	Sensitivity range	EV-2 to EV20 (ISO 100 equivalent with F2.0 lens attached)
	AF modes	Automatic AF (AF-A), Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual Focus
	Focus area	Wide (425 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)
	Focus type with LA-EA3 (sold separately)	Phase-detection/contrast-detection selectable
Exposure control	Other features	Eye-start AF (only with LA-EA2 or LA-EA4 attached (sold separately)), Object Tracking, Eye AF (Right/Left Eye Select), AF micro adjustment with LA-EA2 or LA-EA4 (sold separately), Predictive control, Focus lock, Swt.V/H AF Area, AF Area Regist., Circ. of Focus Point
	Metering type	1200-zone evaluative metering
	Metering sensor	Exmor CMOS sensor
	Metering sensitivity	EV-2 to EV20 (at ISO 100 equivalent with F2.0 lens attached)
	Metering modes	Multi-segment, Center-weighted, Spot (Standard/Large), Entire Screen Avg., Highlight
	Exposure modes	AUTO (iAuto/Superior Auto), 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)), Sweep Panorama, Scene Selection
	Scene Selection	Portrait, Sports Action, Macro, Landscape, Sunset, Night Scene, Hand-held Twilight, Night Portrait, Anti Motion Blur
	Exposure compensation	+/-5.0 EV (in 1/3 EV or 1/2 EV steps)
	AE bracketing	Bracket: Single/Bracket: Cont., 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0 or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3 or 1.0 EV increments.
	AE lock	Available with AE lock button. Locked when shutter button is pressed halfway
ISO sensitivity (Recommended Exposure Index)	Still images: ISO 100-32000 (ISO numbers up to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit), Movies: ISO 100-32000 equivalent, AUTO (ISO 100-6400, selectable lower limit and upper limit)	

^{*1} Phase-detection AF may not work with certain lenses or may require lens software update. See Sony support page for details. ^{*2} With compatible Sony external flash. ^{*3} With compatible external flash. ^{*4} Varies according to shooting conditions or memory card used. ^{*5} In the case of this model, when using Continuous Shooting (Hi+) in Drive mode. ^{*6} Supports Micro USB compatible device. ^{*7} (Configuration method/Access method) WP/S 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) ^{*8} Sony accessories for the Accessory Shoe can be attached. ^{*9} 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. ^{*10} Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom, stand-by and power off. ^{*11} The total movie recording time.

http://www.sony.net/digitalimaging/

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Specifications and features are subject to change without notice. Product availability varies depending on market.

SONY

Interchangeable-lens digital camera

α6400





Grab the best of life.

Despite its compact size and light weight, the smart, new-era **α6400** delivers the speedy performance and intelligent features that you'd expect from a full-frame model. Whether it's for still shots or movies, creative compositions or everyday selfie shots, you'll enjoy beautiful images that you'll want to share. Super-fast AF and highly precise subject tracking make it ideal for capturing fast-moving action, while its wide sensitivity range and stunning image quality make it perfect for just about any photographic opportunity you may encounter.

APS-C Size
24.2
Mega pixels

ISO
100-32000


11 Frames
Per Sec

Phase Detection
425
AF Points

Real-time
Eye AF

Real-time
Tracking

Silent
Shooting

Touch
Focus/Shutter

 **4D FOCUS**

Exmor
CMOS Sensor

BIONZ X

XGA OLED
Tru-Finder

4K
HDR



FE 55mm F1.8 ZA (SEL55F18Z), 1/640., F2.8, ISO 200



E PZ 16-50mm F3.5-5.6 OSS, 1/250., F5.6, ISO 200

Hold onto your subject

Precision focus and speedy autofocus response are the keys to both exciting action shots and captivating portraits. The **α6400**'s new-generation, AI-assisted AF and tracking systems reliably deliver.

Focus on the eyes

The Real-time Eye AF feature helps you take better portrait shots by automatically recognising and focusing on the eyes of your subjects when you half-press the shutter. The camera maintains a stable focus even when part of the face is hidden, the face is backlit or the subject is facing downwards, and when AF-C is set it can keep tracking the eyes even when the subject is moving*. For greater flexibility in your photo's composition, you can specify either the left eye, the right eye, or auto.

* Real-time Eye AF may not work as well as intended, depending on type of shooting scene and conditions.

Keep track of the action

Real-time Tracking uses a smart new subject recognition algorithm to acquire and persistently track your subject in real time by processing spatial information based on colour, pattern and subject distance, and AI information based on face and eye data. Because you can select any subject to be tracked while the shutter button is half-pressed* you can concentrate on composing your shot, with more flexibility in framing. Focus and tracking can also be initiated for any subject visible in the monitor by simply touching the target subject on the monitor.

* "Tracking" must be enabled via the menu beforehand.

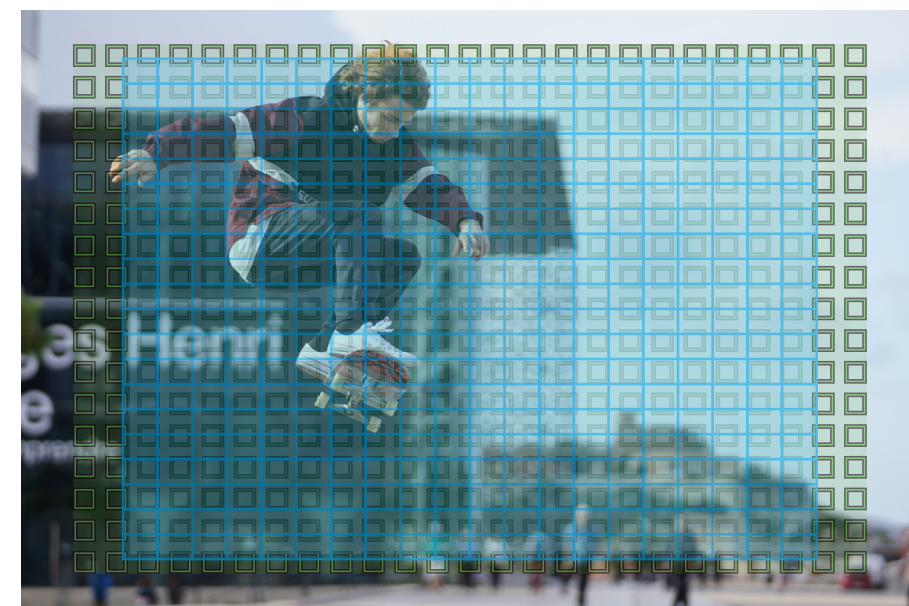


Freeze the moment

The camera's Fast Hybrid AF system combines the best of phase-detection AF and contrast-detection AF to achieve highly accurate target acquisition and phenomenally fast 0.02-second* AF speed. The AF sensor draws on technology inherited from Sony's full-frame cameras, using 425 phase-detection points that are widely and densely spread across the focus area, along with 425 contrast-detection points for increased detection accuracy.

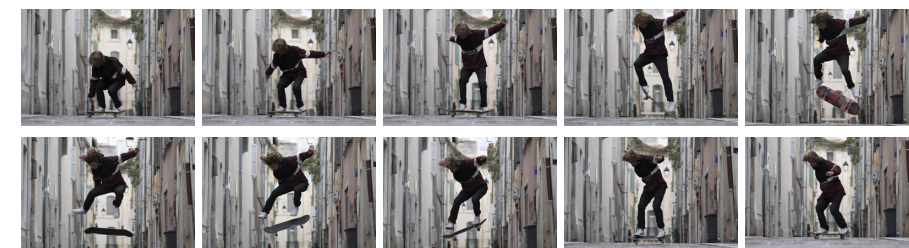
* Based on Sony research, measured using CIPA-compliant guidelines, and internal measurement method with an E 18-135mm F3.5-5.6 OSS lens mounted, Pre-AF off and viewfinder in use.

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



Never miss, with powerful continuous shooting

Never miss a moment of the action thanks to fast internal processing and high-capacity buffer memory. Fire off shots at up to 11fps^{*1} with minimal display lag (or up to 8fps^{*2} with AF/AE tracking in silent mode), and take up to 116 shots^{*3} in JPEG (Standard) in one continuous burst.



*1. In "Hi+" mode. Maximum fps will depend on camera settings.

*2. Maximum fps will depend on camera settings. Some distortion may occur with fast-moving subjects or if the camera is moved sideways rapidly while shooting.

*3. With "Hi" continuous shooting mode. Sony internal measurement.





FE 55mm F1.8 ZA (SEL55F18Z), 1/500 sec., F1.8, ISO 200

Enjoy clear, beautiful images

Capture the special moments of your day in stunning detail and keep the memories vivid, relying on outstanding performance and features inherited from Sony's full-frame cameras.

Capture all the beauty you see



E 16-70mm F4 ZA OSS (SEL1670Z), 1/13 sec., F5, ISO 6400 © Rudy Ricciotti & Roland Carta, architects

Thanks to the camera's large APS-C size sensor working with the latest image-processing technology, you can confidently shoot the scenes you come across in your everyday life - from cityscapes and sunsets to portraits and self-portraits. You'll be assured of natural, lifelike colours and detailed textures - images that remain crisp and clear even when shot in dim light.



ISO 1600



ISO 6400



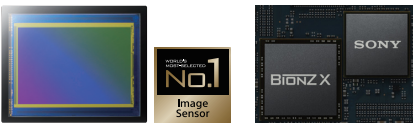
E 16-70mm F4 ZA OSS (SEL1670Z), 1/100 sec., F5.6, ISO 320 © Alfonso Femia, architect

Standard ISO covers the range from ISO 100 to 32000 (expandable up to ISO 102400 when shooting still images), with excellent noise reduction at medium and high sensitivities. Improvements in Detail Reproduction Technology and Area-specific Noise Reduction contribute to better texture reproduction, while enhancements to the image-processing algorithm result in improved skin tones in portraits.

Exmor CMOS Sensor BIONZ X

The APS-C Exmor™ CMOS image sensor, with approx. 24.2 effective megapixels, works with a front-end LSI supporting the new-generation BIONZ X™ image processing engine to achieve improved processing speeds up to 1.8 times* as fast as previously.

* Compared to α6300 in Sony research.



No. 1 image sensor manufacturer for digital cameras and video recorders. Based on Sony research - April 2017 to March 2018. (over 50% market share).

Make great-looking movies

Clear, beautiful-looking movies and vlogs can be yours thanks to the α6400's smart, reliable AF system, its high-resolution 4K recording capabilities and its array of helpful movie-making features.

Leave focus up to the camera



Enhanced Fast Hybrid AF works reliably to keep your main subject in constant smooth focus, so you can concentrate on movie-making or vlogging without worrying about poor focus ruining your movie. Effective use of the focal plane phase-detection system results in more stable AF, and sharp focus can be maintained even when something crosses in front of the main subject. You can adjust AF tracking sensitivity for either stable focus or responsive refocusing, depending on the nature of the scene, and Touch Tracking* lets you initiate tracking of a moving subject simply by touching the LCD screen.

* Must be enabled via the menu beforehand.

Stunning clarity with 4K HDR (HLG) movie recording^{*1*}



To give your movies more realistic depth and better overall image quality, 4K movie recording^{*1} with full pixel readout and no pixel binning enables oversampling with approx. 2.4x^{*3} as much information as is required for 4K (QFHD: 3840 x 2160), adding up to the equivalent of 6K. The maximum native ISO sensitivity has been increased to ISO 32000, HLG profiles^{*2} are available, and the camera's improved noise suppression helps produce cleaner, clearer images even in dark settings.

*1. A Class 10 or higher SDHC/SDXC card is required for XAVC S format movie recording. UHS speed Class 3 or higher is required for 100 Mbps recording.

*2. Connect this product to an HDR (HLG) compatible Sony TV via a USB cable when displaying HDR (HLG) movies.

*3. 24p recording. Approx. 1.6 times for 30p recording.

Rely on sophisticated features for better movie-making



S-Gamut3.Cine/S-Log3 After colour grading

*1. S-Log2 and S-Log3 are premised on processing pictures.

*2. The Gamma Display Assist function is not available for monitoring on external displays and television sets.

*3. Sound recording is not possible. A Class 10 or above SDHC/SDXC card is required.

- S-Log2 and S-Log3 (with 14-stop latitude) Gamma curves^{*1}
- Gamma Display Assist to allow monitoring of natural-looking footage^{*2}
- Slow & Quick Motion^{*3}
- Proxy recording for easier preview and pre-editing

Produce evocative time-lapse movies



Interval recording can now be performed within the camera, and the resulting still images can be edited into a time-lapse movie on a computer using the latest version of Imaging Edge™ “Viewer” and PlayMemories Home™. A mobile battery for USB power supply can enable worry-free outdoor and/or extended shooting.

Workflow: Creating a time-lapse movie

Camera: Interval recording and preview



Computer: Select images and produce movie

Vlog your world and explore your creativity



The camera's 180°-tiltable LCD monitor helps when you're framing your vlog movies, and you can add creative touches with Slow & Quick Motion^{*1} recording or high-quality super-slow-motion footage in XAVC S format.^{*2} For sound recording, besides a built-in external microphone jack there is also an optional XLR adaptor (sold separately) to connect pro-level microphones to give you better audio quality.

*1. Sound recording is not possible. A Class 10 or above SDHC/SDXC card is required.

*2. A Class 10 or higher SDHC/SDXC card is required for XAVC S format movie recording. UHS speed Class 3 or higher is required for 100 Mbps recording.

Imaging Edge applications

The Imaging Edge applications help you raise your photography to the next level while making day-to-day operations more convenient. “Remote” and “Viewer” give you remote control and monitoring ability from your PC screen as well as preview, rating and selection features you can use with large image libraries. And

“Edit” provides RAW editing functions to turn Sony RAW files into high-quality photos for delivery. “Imaging Edge Mobile” enables remote control and file transfer^{*1} including 4K movies^{*2}.

*1. Availability of transfer / playback depends on the performance of the smartphone.

*2. A Class 10 or higher SDHC/SDXC card is required for XAVC S format movie recording. UHS speed Class 3 or higher is required for 100 Mbps recording.



Remote



Viewer



Edit



Imaging Edge Mobile

Adapt to your shooting style

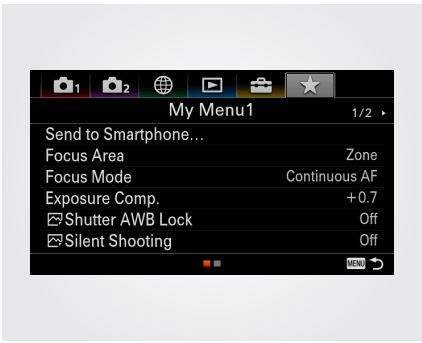
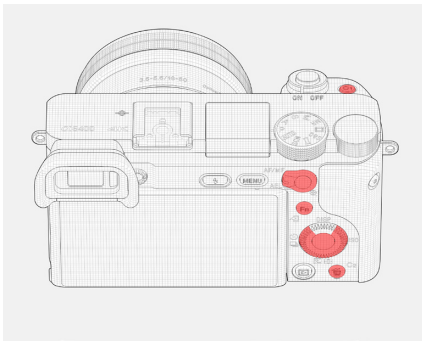
The α6400 is designed to give you greater control when you're shooting and better customisation to your shooting style.

Enjoy simple, convenient shooting



A high-contrast OLED viewfinder and high-resolution LCD monitor enable clear viewing, and the monitor tilts a full 180° upwards to help you frame selfie shots and vlog sessions. The monitor's Touch Focus, Touch Shutter, Touch Pad and Touch Tracking functions give you intuitive, fingertip control over common operations.

Customise your camera



The camera's eight keys and controls can be custom-assigned to commonly used functions, with a new intuitive graphic display to help you keep track. Functions can also be assigned to the control dial and wheel with the new My Dial feature, while My Menu allows the flexible assignment of 30 menu items.

Share stills and movies more easily



Built-in Wi-Fi® means you can send stills or movies directly to a smartphone or tablet, for instant sharing on social media. Connect to NFC™-enabled devices with a single touch, or use a QR code for other devices. When paired with the new Imaging Edge Mobile^{*1} app you can record location data from the mobile device onto the images.^{*2}

^{*1} The most recent version is required.
^{*2} Can be connected via Bluetooth with smartphones featuring (as of the date of release): Android (Android 6.0 or later, Bluetooth 4.0 or later), iOS (iOS 11.4 or later, Bluetooth 4.0 or later)

Take advantage of versatile features

- Rating function
- Protect function
- Tethered shooting
- AWB Lock function
- Power supply via USB
- Durability for up to 200,000 shutter cycles^{*1}
- Dust- and moisture-resistant^{*2}
- Magnesium alloy covers (front and top)

^{*1} With the electronic front curtain shutter, under internal test conditions of Sony.
^{*2} Not guaranteed to be 100% dust and moisture proof.

Explore more

Take a look at the camera's lenses and accessories and explore the camera's controls.

Lenses

APS-C
E 10-18mm F4 OSS
(SEL1018)

APS-C
Vario-Tessar T* E 16-70mm F4 ZA OSS
(SEL1670Z)

APS-C
E PZ 18-105mm F4 G OSS
(SEL18105G)

APS-C
E 55-210mm F4.5-6.3 OSS
(SEL55210)

Full
FE 70-200mm F4 G OSS
(SEL70200G)

Full
FE 70-300mm F4.5-5.6 G OSS
(SEL70300G)

<https://www.sony.net/ilc/lenses>

Accessories

Rechargeable Battery Pack
NP-FW50

Battery Charger
BC-TRW

Remote Control Tripod
GP-VPT1

XLR Adaptor Kit
XLR-K2M

<https://www.sony.net/ilc/accy>

Controls

1 Shutter button
2 Self-timer lamp/AF illuminator
3 Remote sensor
4 Image sensor
5 Lens release button
6 Wi-Fi antenna (built-in)
7 Microphone
8 Mount
9 Lens contacts

10 Diopter-adjustment dial
11 Eye sensor
12 Viewfinder
13 For shooting: Fn button
14 For viewing: Send to Smartphone button
15 Monitor
16 Playback button
17 Flash pop-up button
18 MENU button
19 AF/MF/AEL switch lever
20 MOVIE button
21 For shooting: AF/MF button/AEL button
22 For viewing: Enlarge button

24 Flash
25 Image sensor position mark
26 Multi Interface Shoe
27 ON/OFF (Power) switch
28 C1 (Custom 1) button
29 Mode dial
30 Control dial
31 Access lamp

32 Battery/Memory card cover
33 Connection plate cover
34 Tripod socket hole
35 Speaker
36 Multi/Micro USB Terminal (Supports Micro USB compatible devices)
37 HDMI micro jack
38 Microphone jack
39 Charge lamp
40 N mark