

# SONY

## ILCE-1

Sony Compact Full Frame Stacked CMOS Sensor Lens Camera

# α1

### The One

Sony continues to challenge the limits of conventional imaging tools with innovative technology that delivers an unprecedented combination of resolution and speed plus intuitive operation.

The α1 offers new dimensions of imaging performance as well as efficient workflow, giving the user new creative freedom.



### Key benefits:

#### 50.1MP Exmor RS™ Image Sensor

The α1 features a full-frame stacked back-illuminated CMOS Exmor RS™ sensor with 50.1 effective megapixels and integrated memory. In addition to delivering outstanding image quality, this allows the α1 to shoot continuously at up to 30 frames per second while offering fast, precise phase-detection AF and top quality 8K movies with full-frame 8.6K oversampling for the first time in the α series.

#### BIONZ XR™ Engine

The α1 features a revised system architecture with greatly enhanced processing performance from image capture through all signal processing stages. Processing latency is minimised while image processing power is dramatically increased for extraordinary image quality.

#### Continuous shooting at up to 30fps

High speed readout from the 50.1-megapixel image sensor and a large buffer memory make it possible to shoot up to approx. 165 full-frame JPEG images or 155 full-frame compressed RAW images at up to 30 frames per second with the electronic shutter while maintaining full AF and AE tracking performance.

#### Silent, Vibration-free Electronic Shutter

The electronic shutter operates silently, without mechanical noise that can be disruptive when shooting sports or events in a quiet environment. The electronic shutter is also vibration-free, minimising the likelihood of vibration-induced blur and further contributing to superior image quality.

#### Anti-flicker Shooting with Electronic Shutter

High-speed readout from the new image sensor has made it possible to provide Anti-flicker Shooting with an electronic shutter for the first time. This enables blackout-free shooting, up to 120 AF/AE tracking calculations per second, up to 30 fps continuous shooting, silent shooting, and other advantages of the electronic shutter without flicker issues when shooting under fluorescent, LED or other flicker-prone types of artificial light.

### Key features and technologies:

Exmor RS™ CMOS Sensor BIONZ XR AF

50.1MP 4K HDR 8K HDR 30fps WiFi CERTIFIED

5-axis SteadyShot INSIDE Bluetooth N 8K 30P / 4K 120P

USB-C USB



### Ticket suggestion:

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- 50.1MP 35 mm F/F Stacked CMOS Sensor with Integral Memory
- BIONZ XR™ Image Processor
- Exmor RS™ CMOS Sensor
- 8K / 4K Movie Recording
- Silent Electronic Shutter

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### Specifications:

LENS	
Lens Mount	Sony E-mount
IMAGE SENSOR	
Aspect Ratio	3:2
Number of Pixels (Effective)	Approx. 50.1MP
Sensor Type	35mm Full Frame Exmor RS CMOS Sensor
Anti-Dust System	Charge Protection Coating
IMAGE STABILISATION	
Type	Image Sensor-Shift Mechanism with 5-axis Compensation
RECORDING (STILLS)	
Recording Format	JPEG, HEIF, RAW
Image Size Pixels (3:2)	35mm F/F Large: 8640 x 5760 (49.7M)
Image Size Pixels (16:9)	35mm F/F Large: 8760 x 4864 (42M)
Picture Effects	-
Dynamic Range Functions	Off, Dynamic Range Optimiser
RECORDING (MOVIE)	
Recording Format	XAVC S, XAVC HS
Picture Profile	Yes
Movie Rec. System (XAVC HS 8K)	7680 x 4320 (4:2:0, 10bit, NTSC)
Movie Rec. System (XAVC HS/C 4K)	3840 x 2160 (4:2:0, 10bit, NTSC)
Slow Motion / Quick Motion	Yes / Yes
Movie Functions	Yes
RECORDING SYSTEM	
Location Info Link from Smartphone	Yes
Media	SD/SDHC/SDXC Mem. Card, CFexpress Type A Mem. Card
Memory Card Slots	2x SD Multi-slot Memory Card
FOCUS	
Focus Type	Fast Hybrid AF (Phase/Contrast-detection AF)
Focus Point	35mm F/F: 759 Points (Phase-detection AF)
Sensitivity Range	EV-4 - EV20 (ISO100 with F2.0 Lens attached)
Eye AF	Yes
AF Illuminator	Yes (with Built-in LED type)
EXPOSURE	
Exposure Modes	Yes
Anti-Flicker Shoot	Yes
Scene Selection	-
AE Lock Button	On/Off/Auto
VIEWFINDER	
Viewfinder Type	1.6cm (0.64 type) Electronic Viewfinder (Colour)
Eye Point	Approx. 25mm from the Eyepiece Lens
Number of Dots	9,437,184 Dots
Field Coverage	100%
Magnification	Approx. 0.90 (with 50mm Lens at Infinity)
DRIVE	
Drive Modes	Yes
Continuous Drive Speed (Approx. Max.)	Hi+: 30fps - Lo: 3fps
Pixel Shift Multi-Shooting	4 Shots - 16 Shots
Self Timer	10 sec. / 5 sec. / 2 sec.

LCD SCREEN	
Monitor Type	7.5cm (3.0-type) Type TFT
Touch Panel	Yes
Brightness Control	Manual (5 Steps), Sunny Weather Mode
Adjustable Angle (Approx.)	Up 107 Degrees, Down 41 Degrees
Number of Dots	1,440,000 Dots
Focus Magnifier	35mm F/F: 4.2x, 8.5x, APS-C: 2.7x, 5.5x
SHUTTER	
Type	Electronically Controlled, Vertical-traverse, Focal-plane
Shutter Speed - Stills / Movies	1/8000 to 30 sec. / 1/8000 to 1/4
Flash Sync. Speed	1/400 sec.
Electronic Front Curtain Shutter	Yes
Silent Shooting	On/Off
FLASH	
Control	Pre-flash TTL
FE Level Lock	Yes
Flash Modes	Off, Autoflash, Fill-flash, Slow Sync, Rear Sync, Red-Eye Reduction (On/Off selectable), Wireless, Hi-Speed Sync
Wireless Control	Yes
INTERFACE	
Multi / Micro USB Terminal	Superspeed USB 10Gbps
Wireless LAN (Built-in)	Yes
NFC	Yes
Bluetooth Version	5.0
Vertical Grip Connector	Yes
Headphone Terminal	3.5mm Stereo Mini-jack
BATTERY LIFE	
Stills	Approx. 430 Shots (Viewfinder), 530 Shots (Monitor)
Movie (Cont. Rec.)	Approx. 145 mins. (Viewfinder), 150 mins. (Monitor)
OTHER FEATURES	
Noise Reduction	Yes
White Balance	Yes
Photo Capture	Yes
Built-in Stereo Mic	Yes
Face Detection	Yes
Touch Focus	Yes
Clear Image Zoom	Yes
Speaker	Built-in, Monaural
USB Power Supply	USB Type-C Terminal
DIMENSIONS AND WEIGHT	
Dimensions (W x H x D)	128.9 x 96.9 x 80.8 (mm)
Weight	Approx. 737g