

# Camera Parameter

**1.Camera type:** Interchangeable lens digital camera (micro-single)

Lens Compatibility: Sony E-mount lenses



## image sensor

Sensor type: Full-frame back-illuminated Exmor RCMOS image sensor

Sensor Size: Full Frame

Effective pixels: about 24.2 million effective pixels

Record (still image)

**Image size:** 3:2 (full frame) / APS-C

L: 6000 x 4000(24M) / L: 3936 x 2624(10M)

M: 3936 x 2624(10M) / M: 3008 x 2000(6.0M)

S: 3008 x 2000(6.0M)/ S: 1968 x 1312(2.6M)

16:9 (full frame) / APS-C

L: 6000 x 3376(20M)/L: 3936 x 2216(8.7M)

M: 3936 x 2216(8.7M) / M: 3008 x 1688(5.1M)

S: 3008 x 1688(5.1M) / S: 1968 x 1112(2.2M)

**Image quality:** RAW, JPEG (Super Fine, Fine, Standard)

**Photo Effects:** Tone Separation (Color, Black & White) / Pop Color / Vintage Photo /

Partial Color (Red, Green, Blue, Yellow) / High Contrast Monochrome / Toy Camera

(Standard, Cool, Warm, Green, Magenta) / Soft Bright tones/Rich Monotones

Creative Styles: Standard, Vivid, Neutral, Clear, Dark, Light, Portrait, Landscape,

Dusk, Night, Red Leaf, Black & White, Sepia, Style Frame (1 to 6) (Contrast (-3 to +3

stops) , Saturation (-3 to +3 stops), Sharpness (-3 to +3 stops)

**Auto HDR:** Off/Auto/Grade (1.0EV to 6.0EV, step: 1EV)

**DRO Optimization Function:** Dynamic Range Optimization: Off/Auto, Levels 1 to 5

**Color Space:** Standard sRGB, Adobe RGB Compatible with Tricolor Color  
Technology

record (movie)

**File formats:** XAVC S 4K, XAVC S HD, AVCHD

**Image size:** XAVC S 4K: 3840x2160 (30p, 25p, 24p/100Mbps), 3840x2160 (30p, 25p,  
24p/60Mbps)

**XAVC S HD:**

1920x1080 (120p, 100p/100Mbps),

1920x1080 (120p, 100p/60Mbps),

1920x1080(60p, 50p, 30p, 25p, 24p/50Mbps),

1920x1080 (60p, 50p/25Mbps),

1920x1080 (30p, 25p/16Mbps)

AVCHD: 1920 x 1080 (60i, 24M, FX)

AVCHD: 1920 x 1080 (50i, 24M, FX)

AVCHD: 1920 x 1080 (60i, 17M, FH)

AVCHD: 1920 x 1080 (50i, 17M, FH)

**REC Control:** Yes

**HDMI output:** yes

system of record

**Media:** SD memory card, SDHC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant), microSD memory card\*2, microSDHC memory card\*2, microSDXC memory card\*2

**Noise Reduction:** Long Exposure Noise Reduction: On/Off, available when shutter time is longer than 1 second

**High Sensitivity Noise Reduction:** Standard/Low/Off Selectable

white balance

**White balance settings:** Auto, Daylight, Shade, Cloudy, Incandescent, Fluorescent (Warm White), Fluorescent (Cool White), Fluorescent (Daylight White), Fluorescent (Daylight), Flash, Underwater Auto, Color Temperature/Filter, custom settings

Color temperature: 2500-9900K with filter

focusing system

**Type:** Fast Hybrid AF (Phase Detection AF + Contrast Detection AF)

**Focus points:** 693 phase detection AF points / 425 contrast detection AF points

**Focus area:** Wide (693 points (Phase Detection AF), 425 points (Contrast AF Detection)) / Wide / Center / Flexible Spot (S/M/L) / Extended Flexible Spot / Locked AF (Wide / Wide /Center/Free Point (S/M/L) Extended Free Point)

**Live Eye Focus:** Yes

**Touch to focus (touch to focus):** yes

**Autofocus Illuminator:** Built-in LED

exposure system

**Metering type:** 1200-area metering

**Metering range:** E

## **2. V-3 to EV20: (ISO100, F2.0 lens)**

**Metering modes:** Multi, Center, Spot, Average across the screen, Strong light

**Shooting Modes:** Intelligent Auto/Program Auto/Aperture Priority/Shutter Priority/Manual Exposure/Motion Picture/Fast & Slow Motion

**Exposure compensation:**  $\pm 5.0\text{EV}$ , (step:  $1/3\text{EV}$  or  $1/2\text{EV}$ ); Exposure compensation button  $\pm 3.0\text{EV}$ , (step:  $1/3\text{EV}$ )

**Stage exposure:** Continuous exposure stage: 3/5/9 optional; Single-shot stage: 3/5/9

**ISO sensitivity setting:** Still image: ISO100-51200 (expandable to ISO 50-204800); Auto (ISO100-12800, ISO maximum and minimum values can be selected within this range);

**Motion picture:** ISO100-51200 (ISO can be expanded up to 102400), Auto (ISO 100-12800, ISO maximum and minimum values can be selected within this

range)

**Anti-flash shooting:** yes

viewfinder

**Viewfinder Type:** XGA OLED Tru-finder Viewfinder

**Viewfinder total pixels:** about 2.36 million dots

**Vision rate:** about 100%

**Diopter adjustment:** -4.0 m<sup>-1</sup> to +3.0 m<sup>-1</sup>

**Eye distance:** The maximum distance from the eyepiece is about 20mm, when the eye distance is 17.5mm, when the diopter is -1m<sup>-1</sup>

## **LCD screen**

**LCD screen size:** 3.0"TFT

LCD screen type Multi-angle rollover LCD screen

**LCD screen viewing rate:** about 100%

**Total pixels of LCD screen:** about 920,000 dots

**Brightness control:** Manual ( $\pm 2.0$  level) / sunny weather mode

**Adjustable angle:** the rollover angle is about 176 degrees, and the rotation angle is about 270 degrees

**LCD Display (DISP):** Graphical display, all information displayed, no information displayed, digital level gauge, histogram, viewfinder, LCD off

**Peak Detection:** Yes (Peak Level: High/Mid/Low/Off, Peak Color: Red/Yellow/White/Blue)

## **3. Other functions**

**Face Detection:** Yes

**Face Registration:** Yes

**Intelligent zoom:** about 1.5 times/about 2 times optional (35mm full frame), about 1.3 times/about 2 times optional (APS-C)

**Clear image zoom:** about 2 times

**Digital zoom:** Still image: approx. 4x/approx. 6.1x/approx. 8x optional (35mm full frame), approx. 4x/approx. 5.2x/approx. 8x selectable (APS-C)

**Movie :** Approx. 4x (35mm full frame), Approx. 4x (APS-C)

shutter

**Type:** Electronically Controlled, Portrait Focal-Plane Shutter

Speed range -- Still image: (Mechanical shutter) 1/4000 sec to 30 sec, Bulb, (Electronic shutter) 1/8000 sec to 30 sec, Bulb; Motion picture: 1/4000 sec to 1/4 sec ( 1/3 step)

**Flash sync speed:** 1/160 second

**Electronic Front Curtain Shutter:** Yes

**Silent shooting:** yes

anti-shake

**System:** Image sensor displacement method (5-axis image stabilization)

**Anti-shake function:** The anti-shake effect varies depending on the shooting conditions and the lens used

## **Flash**

Flash metering system: TTL through-the-lens pre-flash metering

Flash compensation:  $\pm 3.0\text{EV}$  (step:  $1/3\text{EV}$  or  $1/2\text{EV}$ )

Flash mode: Disable flash, auto flash, forced flash, low-speed sync, rear-curtain sync flash, red-eye reduction, wireless remote control (using an external flash), high-speed sync (using an external flash)

## **Shoot**

Shooting mode: single shot, continuous shooting, Selfie, Selfie (continuous shooting), continuous bracket exposure, single-shot bracket exposure, white balance bracket exposure, DRO bracket exposure

Continuous shooting speed: H+: Approx. 10 frames/sec; High: Approx. 8 frames/sec;

Mid: Approx. 6 frames/sec; Low: Approx. 3 frames/sec

## **Playback**

Histogram Indication / Index Playback: Yes (Brightness, RGB) / Yes

Magnified view (maximum magnification) Approx. 18.8x(L), Approx. 12.3x(M), Approx. 9.4x(S)

Image rotation: yes

delete/protect: yes/yes

## **Wi-Fi**

Smartphone viewing: yes

Transfer to computer: yes

## **NFC**

One touch remote control: yes

One-touch sharing: yes

## **interface**

USB Type-C Interface: Yes

NFC: yes

Bluetooth: yes

HD output: Yes, Micro HDMI interface, Bravia Sync function, PhotoTV HD, 4K video output, 4K photo playback

Microphone Interface: Yes

audio

Microphone: yes

Speaker: yes

power supply

Battery: One rechargeable battery NP-FZ100

Battery life: Still images: Approx. 680 shots (viewfinder), Approx. 740 shots (LCD)  
(CIPA standard)

Actual dynamic shooting: about 140 minutes (viewfinder), about 140 minutes (LCD)  
(CIPA standard)

Continuous dynamic shooting, about 220 minutes (viewfinder), about 215 minutes  
(LCD) (CIPA standard)

USB Power Delivery: Yes

remote control

Wired\*1 /Wireless: yes

other



Dimensions mm (WxHxD) about 124mm x 71.1mm x 59.7 mm

Weight: about 424g (body only)

Operating temperature: 0°C-40°C

Included accessories: Rechargeable battery (NP-FZ100) (1), AC adapter (1), shoulder strap (1), USB Type-C cable (1), body cap (1) (attached to the camera)