# Specifications

## General

| | |
|---|---|
| **Camera type** | Interchangeable lens digital camera |
| **Lens mount** | E-mount |

## Camera section

| | |
|---|---|
| **Type** | 35mm full frame (35.7 x 23.8 mm), Exmor R CMOS sensor |
| **Number of pixels (effective)*1** | Still images: Approx. 61.0 megapixels max.<br>Movies: Approx. 50.8 megapixels max. |
| **Number of pixels (total)** | Approx. 62.5 megapixels |
| **Color temperature range** | 2500 K - 9900 K |
| **Anti-Dust function** | - |

## Recording system (still image)

| | |
|---|---|
| **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) |
|---|---|
| **Image quality modes** | RAW<br>JPEG<br>HEIF (4:2:0 / 4:2:2)<br>RAW & JPEG<br>RAW & HEIF |
| **14bit RAW** | Yes |

## Recording system (movie)

| Video compression | XAVC S: MPEG-4 AVC/H.264<br>XAVC HS: MPEG-H HEVC/H.265 |
|---|---|
| | LPCM 2ch (48 kHz 16 bit)*2 |

## Movie recording format (XAVC HS 4K)

| 3840 x 2160 (4:2:0, 10bit) (Approx.) | 59.94p (150 Mbps / 75 Mbps / 45 Mbps)<br>50p (150 Mbps / 75 Mbps / 45 Mbps)<br>23.98p (100 Mbps / 50 Mbps / 30 Mbps) |
|---|---|
| **3840 x 2160 (4:2:2, 10bit) (Approx.)** | 59.94p (200 Mbps / 100 Mbps)<br>50p (200 Mbps / 100 Mbps)<br>23.98p (100 Mbps / 50 Mbps) |

## Movie recording format (XAVC S 4K)

| 3840 x 2160 (4:2:0, 8bit) (Approx.) | 59.94p (150 Mbps)<br>50p (150 Mbps)<br>29.97p (100 Mbps / 60 Mbps)<br>25p (100 Mbps / 60 Mbps)<br>23.98p (100 Mbps / 60 Mbps) |
|---|---|
| **3840 x 2160 (4:2:2, 10bit) (Approx.)** | 59.94p (200 Mbps)<br>50p (200 Mbps)<br>29.97p (140 Mbps) |

25p (140 Mbps)
23.98p (100 Mbps)

## Movie recording format (XAVC S HD)

**1920 x 1080**
**(4:2:0, 8bit)**
**(Approx.)**

119.88p (100 Mbps / 60 Mbps)
100p (100 Mbps / 60 Mbps)
59.94p (50 Mbps / 25 Mbps)
50p (50 Mbps / 25 Mbps)
29.97p (50 Mbps / 16 Mbps)
25p (50 Mbps / 16 Mbps)
23.98p (50 Mbps)

**1920 x 1080**
**(4:2:2, 10bit)**
**(Approx.)**

59.94p (50 Mbps)
50p (50 Mbps)
29.97p (50 Mbps)
25p (50 Mbps)
23.98p (50 Mbps)

## Movie recording format (XAVC S-I 4K)

**3840 x 2160**
**(4:2:2, 10bit)**
**(Approx.)**

59.94p (600 Mbps)
50p (500 Mbps)
29.97p (300 Mbps)
25p (250 Mbps)
23.98p (240 Mbps)

## 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 function

**Proxy recording**    Yes

**TC/UB**    Yes

| | |
|---|---|
| **RAW Output** | Yes (HDMI)*3 |

## Recording system

| | |
|---|---|
| **Memory card slot** | Slot for SD (UHS-I/II compliant) memory card |

## Focus system

| | |
|---|---|
| **Type** | Fast Hybrid AF (phase-detection AF / contrast-detection AF) |
| **Focus point** | Still images: Max. 693 points (phase-detection AF)<br>Movies: Max. 693 points (phase-detection AF) |
| **Sensitivity range** | EV-4 to EV20 (ISO100 equivalent with F2.0 lens attached) |

## 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)<br>Movies: ISO 100 - 32000 equivalent, AUTO (ISO 100 - 12800, selectable lower limit and upper limit) |
| **Anti-flicker Shoot.** | Yes*4 |

## Viewfinder

| Type | - |
| --- | --- |

## LCD screen

| Type | - |
| --- | --- |

## Other features

| Other features | Soft Skin Effect<br>Creative Look<br>Custom function<br>Picture Profile<br>Time-lapse |
| --- | --- |

## Clear Image Zoom

| Still images | Approx. 2x |
| --- | --- |
| 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<br>Still images (Electronic shutter): 1/8000 to 30 s<br>Movies: 1/8000 to 1 s |
| Electronic Front Shutter Curtain | Yes |

## Image stabilization

| Type | Not supported (image stabilization supported on lens) |
| --- | --- |

| | |
|---|---|
| **Compensation effect (still images)** | - |
| **Mode** | Still images: On / Off<br>Movie: On / Off |

## Flash

| | |
|---|---|
| **Type** | - |

## Drive

| | |
|---|---|
| **Continuous drive speed (approx., max.)*5** | Mid: 3.0 fps |
| **No. of frame recordable* (approx.)*5** | JPEG Extra fine L: 48 frames<br>JPEG Fine L: 320 frames<br>JPEG Standard L: over 1000 frames<br>RAW: 36 frames<br>RAW & JPEG: 32 frames<br>RAW (Lossless Compressed): 16 frames<br>RAW (Lossless Compressed) & JPEG: 15 frames<br>RAW (Uncompressed): 14 frames<br>RAW (Uncompressed) & JPEG: 13 frames |
| **Pixel Shift Multi Shooting** | - |

## Accessibility

| | |
|---|---|
| **Functions** | Screen Reader<br>Focus Magnifier<br>Focus Map (Movie)<br>Subject Recognition in AF<br>Custom function<br>Enlarge Menu Screen |

## Interface

| | |
|---|---|
| **Multi / Micro USB terminal*6** | - |
| **USB Type-C® Terminal** | Yes (SuperSpeed USB 5 Gbps (USB 3.2) compatible) |
| **Wireless LAN (built-in)** | Yes (Wi-Fi Compatible, IEEE 802.11b/g/n (2.4 GHz band))*7 |
| **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*9 *3 3848 x 2168 (60p / 50p / 30p / 25p / 24p) ,Raw 16bit*3 |
| **Multi Interface Shoe*10** | - |
| **Mic Terminal** | - |
| **Headphone terminal** | - |
| **Remote Control (Wireless)** | Yes (Bluetooth remote control) |
| **DC input** | Yes (Power & Control terminal) |
| **LAN terminal** | - (USB-LAN connection is available)*11 |

## USB Streaming

| | |
|---|---|
| **Video data format** | MJPEG YUV420*12 |

| 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 | - |

## Audio

| Microphone | - |
|---|---|
| Speaker | - |

## Lens compensation

| Lens compensation | Shading, Chromatic Aberration, Distortion, Breathing (Movie) |
|---|---|

## Power

| Battery | - |
|---|---|
| Power Requirements | DC 10 to 18 V |
| USB power supply | - |

## Power consumption

| Without display output | Still images: Approx. 3.8 W (with FE 28-70mm F3.5-5.6 OSS lens attached) |
|---|---|
| | Movies: Approx. 6.5 W (with FE 28-70mm F3.5-5.6 OSS lens attached) |

## Weight

| | |
|---|---|
| **Body only** | Approx. 243 g |
| **Body only (oz.)** | Approx. 8.6 oz |

## Dimensions

| | |
|---|---|
| **Dimensions (W x H x D)** | Approx. 100.0 x 74.0 x 42.5 mm |
| **Dimensions (W x H x D) (in.)** | Approx. 4 x 3 x 1 11/16 inches |

## Operating Temperature

| | |
|---|---|
| **Operating temperature** | 0 - 40 ℃ / 32 - 104 °F |

## Supplied Accessory

| | |
|---|---|
| **Kit Lens** | - |
| **Supplied Accessory** | Body cap<br>Power & Control Cable |

## Notes

*1 Number of effective pixels varies depending on attached lenses and camera settings.
*2 There would be no sound due to no audio input on camera.
*3 HDMI RAW output requires configuration through the Camera Remote SDK application.
*4 Anti-flicker Shooting is not

available when the [Shutter Type] setting is set to [Electronic Shutter].
*5 Varies according to shooting conditions or memory card used
*6 Supports Micro USB compatible device.
*7 (Configuration method/Access method) WPS 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/WPA3-SAE)

*8 Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.
*9 HDMI output automatically detect connected device resolution.
*10 Sony accessories for the Accessory Shoe can be attached.
*11 A commercially available USB-LAN conversion adapter is required.
*12 When [Resolution] is set to [HD(720p)], [MJPEG] is only available.