# SONY

# FS5 II

## PXW-FS5M2 /PXW-FS5M2K

New look for unbounded creativity

## Stunning new Super 35 look

FS5 II's all-new default look is specifically tuned to meet the requirements of today's content creators with rich mid-range colours, alluring facial tones and a softer tonal look tuned with the same expertise as Sony's world-leading VENICE digital cinematography camera. Straight out of the camera your content will look fresh and vivid, with subjects that really stand out, while still retaining plenty of latitude for post production refinement due to the high performance Super 35 Exmor™ sensor.

## High Frame Rate (HFR) recording

FS5 II delivers stunning slow motion imagery, including four seconds of 120fps in 4K, continuous 240fps in 2K RAW when used in partnership with a compatible third-party external recorder.
FS5 II also offers High Frame Rate (HFR) cache recording at Full HD 10bit 4:2:2 image quality and a frame rate of up to 240 fps (8 second cache recording) and continuous 120fps internal recording in Full HD.

| Resolution | Frame rate | Internal/output | Continuous / Burst |
|---|---|---|---|
| 4K (4096x2160) | 60* / 50 | Output FS RAW | Continuous |
| | 120 / 100 | Output FS RAW | Burst four seconds |
| 2K (2048x1080) | 240 / 200 / 120 / 100 | Output FS RAW | Continuous |
| Full HD (1920x1080) | 120 / 100 | Internal recording XAVC HD 422 10bit | Continuous, or burst sixteen seconds |
| | 240 / 200 | Internal recording XAVC HD 422 10bit | Burst eight seconds |

\* 59.94

## Spectacular HDR performance

Demand for HDR content is increasing and FS5 II offers you a choice of two powerful workflows. A phenomenal fourteen stops of exposure latitude ensures the highest fidelity in capturing highlights and details within shadows.

• Instant HDR Workflow is all about speed. Shoot, edit and view content in Hybrid Log-Gamma (HLG) to deliver content quickly without compromising on imaging expression and quality of content.

• S-Log2/3 is the proven choice for premium applications where you wish to capture as much data as possible for the ultimate flexibility in grading.

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## 4K Super 35 Exmor™ sensor

**4K resolution:** 11.6 million total pixels and 8.8 million* effective pixels deliver 4K resolution.

**Super 35 size sensor** offers 'bokeh,' the defocussed backgrounds made possible by shallow depth of field, as well as excellent low-light sensitivity.

**14 stops of exposure** latitude deliver powerful grayscale rendition without crushing shadow detail or blowing out highlight detail.

**Record 10bit 4:2:2 in Full HD** at up 50Mbps internally.

**Record 4K at 60**/50 fps** in FS-RAW via a compatible third-party external recorder.

\* RAW output   \*\*59.94.

## α mount flexibility

Sony's α mount system offers unsurpassed compatibility with both Sony and third-party lenses. FS5 II's E-Mount can take cinema lenses and SLR lenses with a third-party adaptor, as well as Sony's E-mount and A-mount lenses.

You can also purchase FS5 II on its own (PXW-FS5M2) or with lens SELP18105G (PXW-FS5M2K).

## Built-in electronic Variable ND Filters

FS5 II features Sony's unique built-in electronic variable Neutral Density (ND) filter that can be controlled from 1/4ND to 1/128ND linearly. ND Filters can also be set to auto.

## Creative Picture Profiles

FS5 II features an all-new default look with beautiful highlights and subtle, well rendered facial tones for more emotive visuals where your subjects naturally stand out. There's also an additional nine Picture Profiles, including ones customised for S-Log2, S-Log3 and a profile specifically tuned to provide vibrant, high contrast visuals for creators who desire a DSLR-stlye look.

— FS5 II
— FS5

gamma chart (simulated)
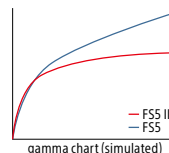
## Clear Image Zoom

Once you've zoomed in at maximum optical magnification, Pixel Super Resolution technology can enlarge the image by additional 200% in Full HD. It is also compatible with fixed focal length lenses, so you can zoom into a scene while using a prime lens.

## Lightweight, modular and robust

Despite its amazingly light 0.8kg body, FS5 II is more than tough enough for the rigours of real-world shooting. A magnesium chassis ensures high rigidity with ¼-inch screw holes on handle, top and bottom of the body to support mounting on a drone, gimbal or in an underwater housing. A detachable Smart Grip puts all of the FS5 II's key functions are at your fingertips and is easily adjusted with the press of a single button.

## Versatile monitoring

However you want to shoot, the FS5 II adapts to fit your style . A high resolution 0.39-inch OLED viewfinder enables precise manual focus and is perfectly offset for right-eye or left-eye viewing. A 3.5-inch LCD screen can be attached in no less than nine different locations: three on top of the handle and another six on top of the body.

## Networked for high mobility

**Live stream** from any event thanks to a choice of Wi-Fi or built-in wired LAN.

**Control FS5 II** from your smartphone or tablet.

**Built-in NFC** supports one-touch authentication possible with appropriate devices.

**Be first with breaking news** thanks to a built-in wired LAN jack for high-speed FTP transfer of full resolution content.

**GPS function** automatically records GPS data.

## Dual SD card slots with independent record control

## Multi-interface (MI) Shoe

## Dual XLR inputs

α Mount System   Exmor™ CMOS Sensor   4K HDR   XDCAM   XAVC   SDHC   SDXC

# Specifications

## Left column

|  |  |
|---|---|
| **General** | |
| Mass | Approx. 830g (Body only) |
| | Approx. 1lb 13.2 oz (Body only) |
| | Approx. 2.2kg (with SELP18105G and lens hood[optional], battery pack BP-U30, large eyecup, lcd panel, handle, grip w/o gripbelt) |
| | Approx. 4lb 14.5 oz (with SELP18105G and lens hood[optional], battery pack BP-U30, large eyecup, lcd panel, handle, grip w/o gripbelt) |
| Dimensions (W x H x D)[[F_WI0001]] | Approx. 111.3 x 128.7 x 172.4 mm (Body only including the projecting parts) |
| | Approx. 185.2 x 218.3 x 369.5 mm (with SELP18105G and lens hood[optional], large eyecup, lcd panel, handle, grip w/o grip belt and including the projecting parts) |
| | Approx. 4 1/2 x 5 1/8 x 6 7/8 inches (Body only including the projecting parts) |
| | Approx. 7 3/8 x 8 5/8 x 14 5/8 inches (with SELP18105G and lens hood[optional], large eyecup, lcd panel, handle, grip w/o grip belt and including the projecting parts) |
| Power Requirements | DC 14.4V (battery pack) DC 12.0V (AC adaptor) |
| Power Consumption | Approx. 11.8W [60i] Approx. 11.5W [50i](while recording with LCD Off, EVF On when the external device connector is not used.) |
| | Approx. 12.6W [60i] Approx. 12.3W [50i] (while recording with LCD On, EVF On when the external device connector is used.) |
| Operating Temperature | 0°C to 40°C |
| | 32°F to 104°F |
| Storage Temperature | -20°C to +60°C |
| | -4°F to +140°F |
| Battery Operating Time | With battery pack BP-U90: approx. 6 hours, 40 minutes [60i] approx. 6 hours, 45 minutes [50i] (While recording with LCD On, EVF Off when the external device connector is not used.) |
| | With battery pack BP-U60: approx. 4 hours, 15 minutes [60i] approx. 4 hours, 20 minutes [50i] (While recording with LCD On, EVF Off when the external device connector is not used.) |
| | With battery pack BP-U60: approx. 4 hours, 15 minutes [60i] approx. 4 hours, 20 minutes [50i] (While recording with LCD On, EVF Off when the external device connector is not used.) |
| | With battery pack BP-U30: approx. 2 hours, 10 minutes [60i] approx. 2 hours, 10 minute [50i] (While recording with LCD On, EVF Off when the external device connector is not used.) |
| **Lens** | |
| Lens Mount | E-mount |
| **Camera Section** | |
| Imaging Device (Type) | "Exmor" Super35 CMOS Sensor |
| Effective Picture Elements | 3840 (H) x 2160 (V)(16:9) 4096 (H) x 2160 (V)(17:9, at RAW output) |
| Built-in Optical Filters | ND filters OFF: CLEAR 1: 1/4ND 2: 1/16ND 3: 1/64ND Linear variable ND  (1/4ND to 1/128ND) |
| Minimum Illumination | 0.16Lux [60i]  (IRIS F1.4, GAIN Auto, Shu tter Speed 1/24) 0.18Lux [50i]  (IRIS F1.4, GAIN Auto, Shutter Speed 1/25) |
| ISO Sensitivity | ISO2000 (S-Log2/S-Log3 Gamma) |
| Shutter Speed | 1/8 to 1/10000 sec. (60i) 1/6 to 1/10000 sec. (50i/24p) |
| Slow & Quick Motion Function | [30p]:2160p: Frame rate selectable 1.2.4.8.15.30 fps |
| | [25p]:2160p: Frame rate selectable 1.2.3.6.12. 25 fps |
| | [60i]:1080p: Frame rate selectable 1,2,4,8,15,30,60,120 fps |
| | [50i]: 1080p: Frame rate selectable 1,2,3,6,12,25,50,100 fps |

## Right column

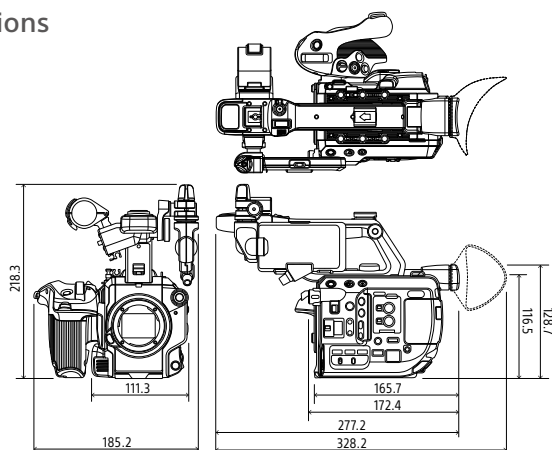|  |  |
|---|---|
| Super Slow Motion | [60i]  Frame  rate selectable 120, 240, 480, 960 fps |
| | [50i] Frame rate selectable 100, 200, 400, 800 fps |
| White Balance | Preset (3200K), Memory A, Memory B/ATW" |
| Gain | 0,3,6,9,12,15,18,24,27,30dB,AGC |
| Gamma Curve | Selectable |
| **Input/Output** | |
| Audio Input | XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable |
| Video Output | Integrated into Multi/Micro USB jack Composite 1.0Vp-p, 75Ω |
| Audio Output | Integrated into Multi/Micro USB jack |
| SDI Output | BNC type (x1), SD/HD/3G(Level-B) selectable SMTPE 259M/292M/424M/425M standards |
| USB | Multi/Micro USB jack (x1) |
| Headphone Output | Stereo mini jack (x1) |
| Speaker Output | Monaural |
| DC Input | DC jack |
| Remote | Stereo mini-mini jack (Φ2.5 mm) |
| HDMI Output | HDMI connector (Type A) |
| **Monitoring** | |
| Viewfinder | 1.0cm(0.39 type) OLED  Approx. 1.44M dots |
| LCD | 8.8cm (3.5 type) Approx. 1.56M dots |
| **Built-in Microphone** | |
| Built-in Microphone | Omni-directional stereo electret condenser microphone |
| **Media** | |
| Type | MS/SD(1),SD(1) |
| **Wi-Fi/NFC** | |
| Supported format | IEEE 802.11 b/g/n |
| Frequency band | 2.4 GHz bandwidth |
| Security | WEP/WPA-PSK/WPA2-PSK |
| NFC | NFC Forum Type 3 Tag compliant |
| **Supplied Accessories** | |
| | Handle (1),Grip Remote (1),LCD Panel (1),Accessory shoe kit (accessory shoe (1), accessory shoe plate (1), screws (4),USB cable (1),AC adapter/charger (1) (BC-U1A),Power cord (1),Wireless remote commander (1) (RMT-845),LCD Protector (1),CD-ROM "Manuals for Solid-State Memory Camcorder" (1),Operating Guide (2),BP-U30 battery pack (1) |

## Recording format table

|  | Format | bitrate | mode | definition | recording frame rate | audio format | recording time 64G SD card |
|---|---|---|---|---|---|---|---|
| 4K | XAVC Long MPEG-4 AVC/H.264 | 100Mbps | - | 3840 x 2160 | 29.97p, 25p, 23.98p | Linear PCM 2ch, 24bit, 48kHz | Approx. 65 min |
| | | 60Mbps | - | | 29.97p, 25p, 23.98p | | Approx. 100 min |
| HD | XAVC Long MPEG-4 AVC/H.264 | 50Mbps | - | 1920×1080 | 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p, | | Approx. 120 min |
| | | | | 1280×720 | 59.94p, 50p, | | |
| | | 35Mbps | - | 1920×1080 | 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p, | | Approx. 170 min |
| | | 25Mbps | - | 1920×1080 | 59.94i, 50i, | | Approx. 220 min |
| | AVCHD MPEG-4 AVC/H.264 AVCHD 2.0  format compatible | 28Mbps | PS | 1920×1080 | 59.94p, 50p | Linear PCM 2ch, 16bit, 48kHz  Dolby Digital 2ch, 16bit, 48kHz | Approx. 290 min |
| | | 24Mbps | FX | 1920×1080 | 59.94i/50i/29.97p/25p/23.98p, | | Approx. 340 min |
| | | | | 1280×720 | 59.94p, 50p, | | |
| | | 17Mbps | FH | 1920×1080 | 59.94i/50i/29.97p/25p/23.98p, | | Approx. 450 min |
| | | | | 1280×720 | 59.94p, 50p, | | |
| | | 9Mbps | HQ | 1280×720 | 59.94p, 50p, | | Approx. 590 min |

# Available Accessories



**BP-U60/BP-U90**
Rechargeable Lithium-ion Battery Pack

**BC-U1/BC-U2**
Battery Charger/AC Adaptor

**UWP-D11/UWP-D12**
Wireless Microphone Package

**SMAD-P3**
MI Shoe Mount Adaptor
* required for cable-free operation with UWP-D11/UWP-D12

**URX-P03D**
UWP-D two-channel portable receiver

**SMAD-P3D**
MI Shoe Mount Adaptor
* required for cable-free operation with URX-P03D

**ECM-VG1**
Electret Condenser Microphone

**CBKZ-SLMP**
MPEG HD Upgrade License

**HXR-IFR5**
Memory Recorder Interface Unit

**AXS-R5**
Portable Memory Recorder

**SDXC 128GB**
SDXC Memory Card

**HVL-LBPC**
Battery Video Light

**MCX-500**
Multicamera Live Producer

**RM-30BP**
Remote Commander

**RM-1BP**
Remote Commander

**VCT-SP2BP**
Camcorder Support

# Dimensions

Unit: mm (inches)



218.3
128.7
116.5
111.3
165.7
172.4
277.2
185.2
328.2

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