SONY

PXW-FS5M2

‘Grab and shoot’ Super35 handheld camcorder with stunning new creative look, 4K 120fps HFR and HDR, α Mount lens system, Variable ND Filter, 4K/2K RAW and XAVC recording



Overview

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 ExmorTM sensor.

Making an impact

Standing out from the crowd isn’t easy. FS5 II makes it easy with complete creative freedom: slow down time with phenomenal high frame rates up to 120fps in 4K and 240fps 2K/Full HD. Deliver spectacularly vivid HDR imagery with a choice of HLG and S-log2/3.

Grab and shoot mobility

Lightweight but robust, FS5 II is an endlessly adaptable camcorder for capturing breath-taking imagery anywhere the action takes you. Its modular design makes it easy to reconfigure for any application including mounting on a gimbal or drone.

Features

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, such as the ATOMOS Shogun and Convergent Design® Odyssey 7Q.

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 on to SDXC card means no more mistimed shots leading to extra takes. It also lets you pick out footage at exactly the point that you want. FS5 II also records continuous 120fps internally in Full HD. Higher frame rates of 480 fps and 960 fps are possible at specific resolutions.

Spectacular HDR performance
Demand for HDR content is increasing and FS5 II offers you a choice of two powerful workflows. Whichever option you choose, 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.

4K Super 35 Exmor (TM) sensor
FS5 II is built around a high-sensitivity 4K Super35 'Exmor' CMOS Sensor that offers all the benefits of a large format sensor in combination with the exceptional image readout speeds required for 4K motion-picture shooting and super slow motion.

4K resolution: 11.6 million total pixels and 8.8 million* effective pixels deliver 4K resolution. Even if you're delivering in HD, your recordings will capture detail and image texture that HD sensors simply cannot see.

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

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

Sony's Exmor CMOS design provides high-speed full-pixel read-out capability (without pixel binning) and sophisticated camera processing to ensure jaggies and moiré are minimised.

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, such as ATOMOS Shogun and Convergent Design® Odyssey 7Q.

* 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. So whether buying new lenses, or making use of lenses you've already purchased, FS5 II makes it easy.

You can also purchase FS5II 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, further expanding the depth of field capability of its large format sensor. Unlike conventional optical ND Filters, the electronic ND Filter on FS5 II can be controlled from 1/4ND to 1/128ND linearly. ND Filters can also be set to auto. This makes FS5 II ideal for fast-moving shoots in changeable environments – there's no need to change filters as lighting conditions change and variable control makes it easy to keep depth of field under control.

New look and 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. FS5 II saves time in post production while still providing all the flexibility and creative latitude you require. 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-style look. Each profile can be individually adjusted to suit your specific requirements and switched between in seconds.

Clear Image Zoom
This proprietary Sony technology significantly extends your ability to get closer to a remote scene while preserving image quality. Once you've zoomed in at maximum optical magnification, By Pixel Super Resolution technology can enlarge the image

by additional 200% in Full HD and 150% in 4K. 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'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. And once attached, the positioning of the screen can be freely adjusted – for example either beside the camera body or directly along the axis of the lens.

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
To extend recording time and workflow flexibility, FS5 II is equipped with two SDXC/SDHC memory card slots. 'RELAY' mode automatically switches recording from the first to the second memory card when the first is full, while 'SIMUL' mode permits simultaneous recording to two memory cards (for example to create an immediate back-up version). FS5 II's three start/stop buttons on the grip, handle and camcorder body, can independently start and stop recording on different memory cards while recording in 'SIMUL' mode.

Multi-interface (MI) Shoe
FS5 II takes advantage of Sony's flexible Multi-Interface (MI) Shoe, which provides power, signal connections and coordinated on/off switching to compatible Sony accessories. For example, you can connect and control Sony wireless microphone systems such as the UWP-D11 or UWP-D12 or attach the HVL-LBPC light.*

*Accessories sold separately. HVL-LBPC light does not draw power from FS5 II.

Dual XLR inputs
The FS5 has two XLR connecters – so even if you remove the handle with its standard, easy-access XLR connector then a second on the body is still available, making it ideal for applications such as shooting in a confined space, such as a car interior, or when mounting on a gimbal.

Specifications

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-U35, large eyecup, lcd panel, handle, grip w/o gripbelt) Approx. 4lb 14.5 oz (with SELP18105G and lens hood[optional], battery pack BP-U35, large eyecup, lcd panel, handle, grip w/o gripbelt)
Dimensions (W x H x D) *1	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	Power Requirements DC 14.4V (battery pack) DC 12.0V (AC adaptor) Please use genuine Sony batteries to ensure correct and safe operation *2
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

General	
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-U35: approx. 2 hours, 40 minutes [60i] Approx. 2 hours, 40 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.)
Recording Format (Video)	XAVC QFHD : MPEG-4 AVC/H.264 4:2:0 Long profile XAVC HD : MPEG-4 AVC/H.264 4:2:2 Long profile AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible
Recording Format (Audio)	XAVC : Linear PCM 2ch, 24bit, 48kHz AVCHD : Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz
Recording Frame Rate	XAVC QFHD (3840 x 2160) @29.97p, 25p, 23.98p, 100Mbps/60Mbps XAVC HD (1920 x 1080) @59.94p, 50p, 50Mbps/35Mbps XAVC HD (1920 x 1080)@59.94i, 50i, 50Mbps/35Mbps/25Mbps XAVC HD (1920 x 1080)@29.97p, 25p, 23.98p, 50Mbps/35Mbps XAVC HD (1280 x 720)@59.94p, 50p, 50Mbps AVCHD (1920 x 1080)@59.94p, 50p, PS mode (28Mbps) AVCHD (1920 x 1080) @59.94i/50i/29.97p/25p/23.98p, FX mode (24Mbps) FH mode (17Mbps) AVCHD (1280 x 720)@59.94p, 50p, FX mode (24Mbps) FH mode (17Mbps) HQ mode (9Mbps)

General

Recording/Playback Time	<XAVC Long> XAVC-L QFHD 100 mode Approx. 65 min with 64 GB memory card XAVC-L QFHD 60 mode Approx. 100 min with 64 GB memory card XAVC-L HD 50 mode Approx. 120 min with 64 GB memory card XAVC-L HD 35 mode Approx. 170 min with 64 GB memory card XAVC-L HD 25 mode Approx. 220 min with 64 GB memory card
Recording/Playback Time - Continued	<AVCHD> AVCHD@LPCM 2ch PS Mode Approx. 290 min with 64 GB memory card Approx. 145 min with 32 GB memory card AVCHD@LPCM 2ch FX Mode Approx. 340 min with 64 GB memory card Approx. 170 min with 32 GB memory card AVCHD@LPCM 2ch FH Mode Approx. 450 min with 64 GB memory card Approx. 225 min with 32 GB memory card AVCHD@LPCM 2ch HQ Mode Approx. 590 min with 64 GB memory card Approx. 290 min with 32 GB memory card

Lens

Lens Mount	E-mount
Focal Length	5.8x (optical), servo (SELP18105G) f = 18 - 105mm equivalent to f = 30.6 -178.5 mm on 35 mm lens (16:9) (SELP18105G)
Iris	F4 (SELP18105G)
Focus	AF/MF selecable, Wide: 450 mm to ∞ Tele: 950 mm to ∞ (SELP18105G)
Image Stabilizer	ON/OFF selectable, shift lens (SELP18105G)
Filter Diameter	72 mm (SELP18105G)

Camera Section

Imaging Device (Type)	"Exmor" Super35 CMOS Sensor

Camera Section	
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)
ISO Sensitivity	S-Log2/Log3 Gamma ISO2000
Minimum Illumination	0.16Lux [60i] (IRIS F1.4, GAIN Auto, Shutter Speed 1/24) 0.18Lux [50i] (IRIS F1.4, GAIN Auto, Shutter Speed 1/25)
Horizontal Rezolution	1000 TV lines or more (1920 x 1080i mode)
Shutter Speed	1/8 to 1/10000 sec. (60i) 1/6 to 1/10000 sec. (50i/24p)
Slow and 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
Super Slow Motion Function	[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)

Input/Output

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

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) Battery pack BP-U30 or U35 (1) Large eyecup (1)

General Notes

*1	The values for dimensions are approximate.
*2	Sony does not guarantee other manufacturers' batteries to operate properly as noted in operation manual.

Product contains pre-installed software

This product contains pre-installed software and requires the purchase of licence keys to activate some functions.

Related products



PXW-FS5

Grab and Shoot with handheld Super 35



MCX-500

Multi-Camera Live Producer



BC-U2A

Two-channel simultaneous battery charger/AC adaptor for BP-U90/U60/U60T/U30 Lithium-ion battery



BC-U1A

Battery charger/AC adaptor for BP-U90/U60/U60T/U30 Lithium-ion battery



LMD-A170

17-inch lightweight Full HD high grade LCD monitor for studio and field use



LMD-A220

21.5-inch lightweight Full HD high grade LCD monitor for studio and field use



SMAD-P3D

Multi Interface Shoe (MI Shoe) adaptor for URX-P03D (Dual Channel)

Gallery















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