PXW-Z190

SONY

4K Handheld Camcorder with all-new 1/3-type 3CMOS with 4K 50p/60p* recording capability, 25x zoom lens and advanced Face Detection AF

4K 50p/60p performance

The newly developed three 1/3-type Exmor R CMOS image sensors capture RGB light independently and deliver 4K 50p/60p imagery with high resolution and a wide range of gradation. In HD shooting, 4:2:210-bit ensures vivid and rich color content

25x optical zoom lens with three independent rings

The PXW-Z190 is equipped with a 25x professional zoom lens able to zoom from 28.8mm to 720mm (35mm equivalent), with three independent control rings, which allows manual control of focus, zoom and iris, making for better and faster adjustment. The image can be enlarged without any picture degradation in an HD mode and a 50x zoom equivalent image is captured with sensor cropping extender

Advanced Face Detection AF

SONORA

SERVICES

XDCVW

Petit-Flon 31 - Le Mont/Lausanne - 021 310 20 60

PROFESSIONAL

The PXW-Z190 features newly developed Face Detection AF, selectable from Face Priority AF or Face Only AF. Simply keep the person in frame and however you move to obtain a better angle, you can be confident the PXW-Z190 will keep your subject in pin-sharp focus

Built-in electronic Variable ND Filters

Sony's ground-breaking integration of electronic variable ND Filters into the body of a camcorder enables fast, agile shooting. Moving from shadowy interiors to bright sun-lit exteriors is no problem. Unlike conventional optical ND filters, the electronic ND filter on the PXW-Z190 can be controlled from 1/4ND to 1/128ND linearly while ND Filters can be set to fully auto. You can even manually adjust Depth of Field using the iris lens ring, while relying on the camcorder to maintain constant exposure without changing gain nor shutter speed.

Dual Multi-Interface (MI) Shoe and 4ch audio input

Dual MI shoe enables the use of a wireless microphone and video light at the same time to achieve further flexibility. When using Sony's UWP-D series wireless microphone**, audio signals can be delivered without cabling - eliminating the risk of accidental disconnection. Enhanced 4-channel audio recording is supported by a combination of 2 XLR inputs and audio input via an MI shoe.

Instant HDR workflow

Shoot, edit and view HDR content in HLG without the need for additional colour grading. Premium content services are switching to HDR and the PXW-Z190 is ready with Hybrid Log-Gamma (HLG) recording for easy file-based workflows, whilst achieving the image quality of HDR. This simple workflow enables the shooting, editing and viewing of HDR content in HLG without devoting a lot of time to post-production work and additional colour grading.

Network workflow flexibility

Install the free "Content Browser Mobile" app on your smartphone to operate the camera remotely controlling Iris, Zoom, Focus WB and other functions from the palm of your hand. The PXW-Z190 is also easily upgraded to offer all the below features with optional CBK7-SI NW1

- High quality QoS Streaming to Network RX station**
 XDCAM air secure wireless workflow.
- MPEG TS UDP streaming to peripheral common receiver.
 FTP Transfer of proxy and high resolution clip to remote servers.
- Wired LAN streaming and file transfer
- Trimming proxy and high resolution clip prior to sharing.

A wealth of formats and features for professional

The PXW-Z190 covers a wide range of main formats including XAVC-Long, DVCAM. In addition to these formats, MPEG HD 422 and MPEG HD are available with an optional license. Proxy 1080i up to 9Mbps can be utilized for 4K and HD simultaneous recording. Other features include 3G-SDI output and a remote terminal for compact multi-camera operation using Sony's MCX-500** production switcher and RM-30BP** controller * Optional













Specifications

General	
Mass	Approx 2.3 kg (body)
11055	Approx. 5 lb 1.1 oz (body)
	Approx. 2.8 kg (with lens hood, eyecup, BP-U30 battery, a SD memory card)
	Approx. 2.6 g (with lens hood, eyecup, Br-U30 battery, a SD memory card)
Dimonsions (W v U v D)	190.0 × 202.0 × 419.7 mm (With the accessories (lens hood, eyecup), excluding the grip belt and
Dimensions (W x H x D) Power Requirements	including the projecting parts)
	7 1/2 x 8 x 16 1/2 inches (With the accessories (lens hood, eyecup), excluding the grip belt and
	including the projecting parts)
	DC In: 12V
	Battery: 14.4 V
Power Consumption	Approx. 24W(while recording with LCD Off, EVF On when the external device connector is not used.)
	Approx. 36W(while recording with LCD On, EVF On when the external device connector is used.)
Battery Operating Time	Approx. 1 hours, 5 minutes with BP-U30 battery
	(while recording with LCD Off, EVF On when the external device connector is not used.)
	Approx. 2 hours, 10 minutes with BP-U60 battery
	(while recording with LCD Off, EVF On when the external device connector is not used.)
	Approx. 3 hours, 15 minutes with BP-U90 battery
	(while recording with LCD Off, EVF On when the external device connector is not 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)
Recording Format (Video)	XAVC-L QFHD mode:VBR, maximum bit rate 150Mbps, MPEG-4 H.264/AVC
	XAVC-L HD 50 mode:VBR, maximum bit rate 50Mbps, MPEG-4 H.264/AVC
December Format (Audio)	XAVC-L HD 35 mode:VBR, maximum bit rate 35Mbps, MPEG-4 H.264/AVC
	XAVC-L HD 25 mode: VBR, maximum bit rate 25Mbps, MPEG-4 H.264/AVC
	DVCAM mode:CBR, 25Mbps, DVCAM
	XAVC-L mode:LPCM 24-bit, 48kHz, 4 channels
Recording Format (Audio)	
	DVCAM mode:LPCM 16-bit, 48kHz, 4 channels
Recording Frame Rate	XAVC-L QFHD 150 mode:3840x2160/59.94P, 50P, 29.97P, 23.98P, 25P
	XAVC-L HD 50 mode:
	1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P
	1280x720/59.94P, 50P
	XAVC-L HD 35 mode:
	1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P
	XAVC-L HD 25 mode:
	1920x1080/59.94i, 50i
	DVCAM mode:
	720x480/59.94i, 29.97PsF
	720x576/50i, 25PsF
Description (Dischards Times	
Recording/Playback Time	XAVC-L QFHD 150 mode
	When using 128GB memory card: Approx. 88 minutes
	XAVC-L HD 50 mode
	When using 128GB memory card:
	Approx. 240 minutes
	XAVC-L HD 35 mode
	When using 128GB memory card:
	Approx. 325 minutes
	XAVC-L 25 mode
	When using 128GB memory card:
	Approx. 445 minutes
	When using 128GB memory card:
	Approx. 425 minutes
Recording Format (Proxy Audio)	XAVC Proxy: AAC-LC, 128 kbps, 2 channels
	XAVC Proxy: AVC/H.264 Main Profile 4:2:0 Long GOP, VBR
Recording Format (Proxy Video)	
	1920x1080, 9Mbps
	1280x720, 9Mbps
	1280x720, 6Mbps
	1280x720, 6Mbps 640x360, 3Mbps
	640x360, 3Mbps
	640x360, 3Mbps 480x270, 1Mbps
l enc	640x360, 3Mbps
	640x360, 3Mbps 480x270, 1Mbps 480x270, 0.5Mbps
Lens Mount	640380, 3Mbps 480x270, IMbps 480x270, O.SMbps Fixed type
Lens Mount Zoom Ratio	640x360, 3Mbps 480x270, Mbps 480x270, 0.5Mbps Fixed type Z5x
Lens Mount Zoom Ratio	640:380, 3Mps 480:270, 0.5Mps 480:270, 0.5Mps Fixed type 25x 3.7 mm to 92.5 mm
Lens Mount Zoom Ratio Focal Length	6 403360, 3Mprs 480x270, 0.5Mbps 480x270, 0.5Mbps Fixed type Zix 3.7 mm to 92.5 mm (equivalent to 22.8 mm to 720 mm on a 35 mm lens) auto/manual swichable
Lens Mount Zoom Ratio Focal Length Iris	640/360_3Mbps 480x270, SMbps 480x270, SMbps 7 7 7 7 7 7 7 7 400000 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 9
Lens Mount Zoom Ratio Focal Length Iris	6 403360, 3Mprs 480x270, 0.5Mbps 480x270, 0.5Mbps Fixed type Zix 3.7 mm to 92.5 mm (equivalent to 22.8 mm to 720 mm on a 35 mm lens) auto/manual swichable
Lens Mount Zoom Ratio Focal Length Iris	640x360, 3Mbps 480x270, Mbps 480x270, 0.5Mbps Fixed type Z5x 3.7 mm to 92.5 mm (equivalent to 28.8 mm to 720 mm on a 35 mm lens) auto/manual swichable F16 to F1 and C(dose) 800 mm to w(Macro 0ff)
Lens Mount Zoom Ratio Focal Length Iris	640:380, 3Mbps 480x270, Mbps 480x270, SMbps Fixed type 25x 3.7 mm to 92.5 mm (equivalent to 28.6 mm to 720 mm on a 35 mm lens) auto/manual switchable Fils to F1 and C(dose) 800 mm to e(Macro Otf) 10 mm to e(Macro Otf) 10 mm to e(Macro Otf)
Lens Mount Zoom Ratio Focal Length Iris	640/360_3Mbps 480x270, IMps 480x270, 0.5Mbps Fixed type 25x 3.7 mm to 92.5 mm (equivalent to 28.8 mm to 720 mm on a 35 mm lens) auto/manual swichable F16 to F11 and C(dose) 800 mm to c(Macro 0ff) 10 mm to c(Macro 0ff) 10 mm to c(Macro 0ff) 10 mm to co(Macro 0ff)
Lens Lens Mount Zoom Ratio Focal Length Iris Focus Image Stabilizer	640:380, 3Mbps 480x270, Mbps 480x270, SMbps Fixed type 25x 3.7 mm to 92.5 mm (equivalent to 28.6 mm to 720 mm on a 35 mm lens) auto/manual switchable Fils to F1 and C(dose) 800 mm to e(Macro Otf) 10 mm to e(Macro Otf) 10 mm to e(Macro Otf)

Camera Section	4/2
Imaging Device (Type)	1/3 type back-illuminated Exmor R 3CMOS sensor
Effective Picture Elements	3840 (H) x 2160 (V)
Optical System	F1.6 prism system
Built-in Optical Filters	ND filters OFF: CLEAR 1: 1/4ND 2: 1/16ND 3: 1/64ND Linear variable ND (Approx. 1/4ND to 1/128ND)
Sensitivity (2000 lx, 89.9% reflectance)	F11 (typical, 1920 x 1080/59.94p, High Sensitivity Mode) F12 (typical, 1920 x 1080/50p, High Sensitivity Mode)
Minimum Illumination	0.01lx (typical) (1920 x 1080/59.94i mode, F1.6, +30 dB gain, High Sensitivity Mode, with 64 frame accumulation)
S/N Ratio	57 dB (Y) (typical)
Horizontal Resolution	2,000 TV lines or more (3840 x 2160p mode) 1,000 TV lines or more (1920 x 1080p mode)
Shutter Speed	1/24 sec to 1/8,000 sec
Slow Shutter (SLS)	2, 3, 4, 5, 6, 7, 8, 16, 32, and 64-frame accumulation
Slow & Quick Motion Function	<xwc long=""> 2160P: 1-60 fps 1080P: 1-60 fps 720P: 1-60 fps</xwc>
White Balance	Preset (3200K), Memory A, Memory B/ATW
Gain	-3, 0, 3, 6, 9, 12, 15, 18 dB, 30dB(Turbo Gain ON), AGC
Gamma Curve	Selectable
Input/Output	
Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable LNE:+4, 0, -3dBu/10k2 MIC:-80dBu to -30dBu /3kQ (0 dBu=0.775 Vrms)
Audio Output	Integrated into Multi/Micro USB jack(x1)
SDI Output	BNC (x1), 3G/HD/SD selectable
Timecode Input	BNC (x1) (switchable to TC out) 0.5V-1.8Vp-p, 3.3kΩ
Timecode Output	BNC (x1) (switchable to TC in) 1.0Vp-p, 75Ω
USB	USB device, Multi/Micro USB jack (x1) Host:USB 3.0/2.0 (ype A(x1) USB 2.0 type A(x1)
Headphone Output	Stereo mini jack (x1) -16dBu 16Q
Speaker Output	Monaural Output: 500mW
DC Input	DC jack
Remote	Stereo mini-minijack (Ф2.5 mm)
HDMI Output	HDMI connector (Type A)
Wired LAN	RJ-45 (x1), 1000BASE-T, 100BASE-T, 10BASE-T
Monitorina	10 45 (XI), 10000A5E 1, 1000A5E 1
Viewfinder	1.0 cm (0.39 type)
viewinder	Approx 2.36M dots
10	8.8cm (3.5 type)
LCD.	Approx. 1.56M dots
Built-in Microphone	reproversion data
Built-in Microphone Media	Omni-directional stereo electret condenser microphone
Type	MS/SD(1),SD(1)
Wi-Fi/NFC	marao(1/20(1)
Supported format	IEEE 802.11 a/b/g/n/ac
Frequency band	2.4 GHz bandwidth
	5.2/5.3/5.6 GHz bandwidth * Depending on country/regional regulation
Security	WEP/WPA-PSK/WPA2-PSK
NFC	NFC Forum Type 3 Tag compliant
Supplied Accessoies	
Supplied Accessoies	Lens hood (1), Pre-installed to the Camcorder
Supplied Accessoles	EVF eyecup (1), Pre-installed to the Cancorder
	Battery pack BP-U30 (1)
	Battery charger BC-U1A (1)
	Power Code (1)
	USB cable (1)
	Warranty Booklet (1)
	"Before Using this Unit" (1)
	"Operating instructions" (1)

Available Accessories



Rechargeable Lithium-ion Battery Pack







CBKZ-SLNW1

Network Upgrade License *available in December 2018

BONY









MI Shoe Mount Adaptor * required for cable-free opera with URX-P03D



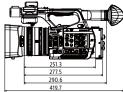
ECM-VG1 Wired Microphones



MPEG HD Upgrade License









HVL-LBPC

Battery Video Light

Unit: mm (inches)



MCX-500 Multicamera Live Producer

RM-30BP Remote Commander

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