

General

Important Note

PXW-Z190 is available from Sony as two SKUs. PXW-Z190V supports both 5 Ghz and 2.4 Ghz Wi-Fi. PXW-Z190T supports 2.4 GHz Wi-Fi. Availability is determined by country/regional regulations.

Mass

Approx. 2.3 kg (body)

Approx. 5 lb 1.1 oz (body)

Approx. 2.8 kg (with lens hood, eyecup, BP-U35 battery, a SD memory card)

Approx. 6 lb 2.8 oz (with lens hood, eyecup, BP-U35 battery, a SD memory card)

Dimensions (W x H x D)

190.0 × 202.0 × 419.7 mm (With the accessories (lens hood, eyecup), excluding the grip belt and 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)

Power Requirements

DC In: 12 V,

Battery: 14.4 V

Please use genuine Sony batteries to ensure correct and safe operation*1

Power Consumption

Approx. 24 W

(while recording with LCD Off, EVF On when the external device connector is not used.)

Approx. 36 W

(while recording with LCD On, EVF On when the external device connector is used.)

Battery Operating Time

Approx. 1 hours, 20 minutes with BP-U35 battery (while recording with LCD Off, EVF On when the external device connector is not used)

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 Long>

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

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>

DVCAM mode:

CBR, 25Mbps, DVCAM

Recording Format (Audio)

<XAVC Long>

XAVC-L mode:

LPCM 24-bit, 48 kHz, 4 channels

<DVCAM>

DVCAM mode:

LPCM 16-bit, 48 kHz, 4 channels

Recording Frame Rate

<XAVC Long>

XAVC-L QFHD 150 mode:

3840 x 2160/59.94P, 50P, 29.97P, 23.98P, 25P

XAVC-L HD 50 mode:

1920 x 1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P 1280 x 720/59.94P, 50P

XAVC-L HD 35 mode:

1920 x 1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P

XAVC-L HD 25 mode:

1920 x 1080/59.94i, 50i

<DVCAM>

DVCAM mode:

720 x 480/59.94i, 29.97PsF 720 x 576/50i, 25PsF

Recording/Playback Time

<XAVC Long>

XAVC-L QFHD 150 mode

When using 128 GB memory card:

Approx. 88 minutes

XAVC-L HD 50 mode

When using 128 GB memory card:

Approx. 240 minutes

XAVC-L HD 35 mode

When using 128 GB memory card:

Approx. 325 minutes

XAVC-L 25 mode

When using 128 GB memory card:

Approx. 445 minutes

<DVCAM>

When using 128 GB memory card: Approx. 425 minutes

Recording Format (Proxy Audio)

XAVC Proxy: AAC-LC, 128 kbps, 2 channels

Recording Format (Proxy Video)

XAVC Proxy: AVC/H.264 Main Profile 4:2:0 Long GOP, VBR

1920 x 1080, 9Mbps

1280 x 720, 9Mbps

1280 x 720, 6Mbps

640 x 360, 3Mbps

480 x 270, 1Mbps

480 x 270, 0.5Mbps

Lens

Lens Mount

Fixed type

Zoom Ratio

25x

Focal Length

3.7 mm to 92.5 mm

(equivalent to 28.8 mm to 720 mm on a 35 mm lens)

Iris

Auto/manual swichable

F1.6 to F11 and C (close)

Focus

800 mm to ∞ (Macro Off)

10 mm to ∞ (Macro On, Wide)

800 mm to ∞ (Macro On, Tele)

AF/MF/Full MF selectable

Image Stabilizer

On/Off selectable, shift lens

Filter Diameter

M 82 mm , pitch 0.75 mm

Camera Section

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

0.01 lx (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 and Quick Motion Function

<XAVC Long>

2160P: 1-60 fps

1080P: 1-60 fps

720P: 1-60 fps

White Balance

Preset (3200K), Memory A,

Memory B/ATW

Gain

-3, 0, 3, 6, 9, 12, 15, 18 dB, 30 dB (Turbo Gain ON), AGC

Gamma Curve

Selectable

Streaming

Protocol *3

AVC / RTMP / RTMPS

1920 x 1080 at 9 Mbps

1920 x 1080 at 6 Mbps

1280 x 720 at 3 Mbps

640 x 340 at 1 Mbps

Input/Output

Audio Input

XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable

LINE : +4, 0, -3dBu/10kΩ

MIC : -80dBu to -30dBu /3kΩ

(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, 3.3k Ω

Timecode Output

BNC (x1) (switchable to TC in)

1.0 V p-p, 75 Ω

USB

USB device, Multi/Micro USB jack (x1)

Host: USB 3.0/2.0 type A(x1)

USB 2.0 type A(x1)

Headphone Output

Stereo mini jack (x1)

-16dBu 16 Ω

Speaker Output

Monaural

Output: 500 mW

DC Input

DC jack

Remote

Stereo mini-minijack (Φ 2.5 mm)

HDMI Output

HDMI connector (Type A)

Wired LAN

RJ-45 (x1), 1000BASE-T, 100BASE-T, 10BASE-T

Monitoring**Viewfinder**

0.39 type (1.0 cm)

Approx 2.36 M dots

LCD

3.5 type (8.8cm)

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 a/b/g/n/ac

Frequency Band

2.4 GHz bandwidth

5.2/5.3/5.6 GHz bandwidth*2

Security

WEP/WPA-PSK/WPA2-PSK

NFC

NFC Forum Type 3 Tag compliant

Supplied Accessories

Supplied Accessories

Lens hood (1), Pre-installed to the Camcorder

EVF eyecup (1)

Battery pack BP-U30 or U35 (1)

AC Adaptor/charger BC-U1A (1)

Power code (1)

USB cable (1)

Warranty booklet (1)

"Before Using this Unit" (1)

CDROM "Operating instructions" (1)

Notes

***1**

Sony does not guarantee other manufacturers' batteries to operate properly as noted in operation manual.

***2**

Depending on country/regional regulation and only on PXW-Z190V SKU.

***3**

Requires CBKZ-SLNW1 and V4 or higher firmware.