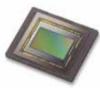


# "One-Man Operation" & High Mobility Professional Camera

## Equipped with high-sensitivity 4K Super35 "Exmor" **CMOS Sensor**

The FS7 is equipped with a Super 35mm CMOS image sensor with approximately 11.6 million total pixels and 8.8 million effective pixels. The high image readout speed of the image sensor allows the FS7 to support 4K motion-picture shooting and Super Slow Motion. The sensor also realizes a high sensitivity of ISO2000 and a wide dynamic range of 14 stops.



Exmor

#### Internal recording in 4K\*1 resolution at 60fps\*2

The FS7 supports internal recording at 4K resolution as well as a wide range of frame rates (59.94p, 50p, 29.97p, 25p and 23.98p).

\*1 Support for QFHD 3840 x 2160 resolution will be available by the date of launch. 4096 x 2160 resolution support will be provided with a scheduled firmware update in early 2015. \*2 59.94fps

## Super Slow Motion continuous shooting -Full HD recording up to 180fps

The FS7 offers Continuous Recording at Full HD image quality and a frame rate of up to 180fps. This makes it possible to attain up to 7.5x Super Slow Motion when played back at 23.98fps.

### Adopts $\alpha$ mount system that is suitable for movie shooting

The E-mount system's short flange-back distance enables use of A-mount lenses via LA-EA4 lens adapter, as well as various other lenses via third-party adapters.

## Support for S-Gamut3.Cine/S-Log3 and S-Gamut3/S-Log3

Due to the fact that 18% gray is set as a bright level, S-Log3 is noted for delivering a wider dynamic range than the 1300% achieved by S-Log2 incorporated in cameras such as the NEX-FS700

#### For extended flexibility - Extension Unit (XDCA-FS7)

#### Apple ProRes 422 encoding

It enables Apple ProRes 422 format ProRes recording to an XQD card in the camera

#### Multi camera settina

Precise timecode synchronization provided by Genlock and Timecode In/Out functions

#### 4K/2K RAW Recording w/ HXR-IFR5+AXS-R5

The FS7's FS RAW Interface can be connected to compatible third-party external Recorder as well.











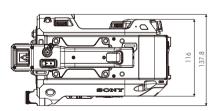




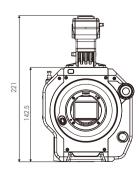
# **Specifications**

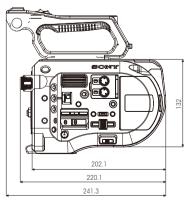
|                                      | PXW-FS7  |
|--------------------------------------|--|
| General<br>Mass                      | Approx 2.0 kg (body only)  |
|                                      | Approx. 4.5 kg (with Viewfinder, Eyepiece, Grip Remote Control, BP-U30 battery, SELP28135G LENS, an XQD memory card)                       |
| Dimensions (W x H x D)*              | 156 x 239 x 247 mm (body without protrusions)  |
| Power Requirements Power Consumption | DC 12 V  Approx. 19W (while recording XAVC-I QFHD 59.94P, SELP28135G Lens, Viewfinder ON, not using external device)                       |
| 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               | Approx. 1 hrs with BP-U30 battery  |
|                                      | (while recording XAVC-I QFHD 59.94P, SELP28135G Lens, Viewfinder ON, not using external device)  Approx. 2 hrs with BP-U60 battery         |
|                                      | (while recording XAVC-I QFHD 59.94P, SELP28135G Lens, Viewfinder ON, not using external device)  |
|                                      | Approx. 3 hrs with BP-U90 battery  |
| D                                    | (while recording XAVC-I QFHD 59.94P, SELP28135G Lens, Viewfinder ON, not using external device)  |
| Recording Format (Video)             | <xavc intra=""> XAVC-I mode:QFHD 59.94P, CBG, bit rate 600Mbps, MPEG-4 H.264/AVC</xavc>  |
|                                      | XAVC-I mode:QEHD 50P, CBG, bit rate 500Mbps, MPEG-4 H.264/AVC  |
|                                      | XAVC-I mode:QFHD 50P, CBG, bit rate 500Mbps, MPEG-4 H.264/AVC XAVC-I mode:QFHD 29.97P, CBG, bit rate 300Mbps, MPEG-4 H.264/AVC             |
|                                      | XAVC-I mode:QFHD 23.98P, CBG, bit rate 240Mbps, MPEG-4 H.264/AVC   |
|                                      | XAVC-1 mode:QFHD 25P, CBG, bit rate 250Mbps, MPEG-4 H.264/AVC  |
|                                      | XAVC-I mode:HD 59.94P, VBR, maximum bit rate 222Mbps, MPEG-4 H.264/AVC XAVC-I mode:HD 50P, VBR, maximum bit rate 185Mbps, MPEG-4 H.264/AVC |
|                                      | XAVC-I mode:HD 59.94i, VBR, maximum bit rate 111Mbps, MPEG-4 H.264/AVC   |
|                                      | XAVC-I mode:HD 50i, VBR, maximum bit rate 112Mbps, MPEG-4 H.264/AVC  |
|                                      | XAVC-I mode:HD 29.97P, VBR, maximum bit rate 111Mbps, MPEG-4 H.264/AVC   |
|                                      | XAVC-I mode:HD 23.98P, VBR, maximum bit rate 89Mbps, MPEG-4 H.264/AVC  |
|                                      | XAVC-I mode:HD 25P, VBR, maximum bit rate 112Mbps, MPEG-4 H.264/AVC  |
|                                      | <xavc long=""> XAVC-L QFHD 59.94P/50P mode: VBR, maximum bit rate 150Mbps, MPEG-4 H.264/AVC</xavc>   |
|                                      | XAVC-L QFHD 29.97P/23.98P/25P mode: VBR, maximum bit rate 100Mbps, 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  |
|                                      | MPEG-2 Long GOP> MPEG-1D 422 modes CRP, movimum bit sets FOMbox, MPEG-2, 423 PGUII.  |
| Recording Format (Audio)             | MPEG HD422 mode: CBR, maximum bit rate 50Mbps, MPEG-2 422P@HL<br>LPCM 24 bits, 48 kHz, 4 channels (Recording/Playback ONLY 2channels)      |
| Recording Frame Rate                 | <xavc intra=""></xavc>   |
|                                      | XAVC-I QFHD mode: 3840x2160/ 59.94P, 50P, 29.97P, 23.98P, 25P  |
|                                      | XAVC-I HD mode: 1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P  |
|                                      | <xavc long=""></xavc>  |
|                                      | XAVC-L QFHD mode: 3840x2160/59.94P, 50P, 29.97P, 23.98P, 25P<br>XAVC-L HD 50 mode: 1920x1080/59.94P, 50P, 59.94i, 50i, 29.97P, 23.98P, 25P |
|                                      | XAVC-L 35 mode: 1920x1080/59.94P, 50P, 59.94I, 50I, 29.97P, 23.98P, 25P  |
|                                      | XAVC-L 25 mode: 1920x1080/59.94i, 50i  |
|                                      | <mpeg-2 gop="" long=""></mpeg-2>   |
|                                      | MPEG HD422 mode: 1920x1080/59.94i, 50i, 29.97P, 23.98P, 25P  |
| Recording/Playback Time              | 1280x720/59.94P, 50P, 29.97P, 23.98P, 25P <xavc intra=""></xavc>   |
| Recording/Flayback fillic            | XAVC-I mode QFHD 59.94P  |
|                                      | When using QD-G128A (128GB): Approx. 22 minutes, When using QD-G64A (64GB): Approx. 11 minutes   |
|                                      | XAVC-I mode QFHD 50P   |
|                                      | When using QD-G128A (128GB): Approx. 26 minutes, When using QD-G64A (64GB): Approx. 13 minutes XAVC-I mode QFHD 29.97P                     |
|                                      | When using QD-G128A (128GB): Approx. 44 minutes, When using QD-G64A (64GB): Approx. 22 minutes   |
|                                      | XAVC-I mode QFHD 23.98P  |
|                                      | When using QD-G128A (128GB): Approx. 55 minutes, When using QD-G64A (64GB): Approx. 27 minutes   |
|                                      | XAVC-I mode QFHD 25P   |
|                                      | When using QD-G128A (128GB): Approx. 52 minutes, When using QD-G64A (64GB): Approx. 26 minutes XAVC-I mode HD 59.94P                       |
|                                      | When using QD-G128A (128GB): Approx. 59 minutes, When using QD-G64A (64GB): Approx. 30 minutes   |
|                                      | XAVC-I mode HD 50P   |
|                                      | When using QD-G128A (128GB): Approx. 71 minutes, When using QD-G64A (64GB): Approx. 35 minutes   |
|                                      | XAVC-I mode HD 59.94i When using QD-G128A (128GB): Approx. 118 minutes, When using QD-G64A (64GB): Approx. 59 minutes                      |
|                                      | XAVC-I mode HD 50i   |
|                                      | When using QD-G128A (128GB): Approx. 141 minutes, When using QD-G64A (64GB): Approx. 70 minutes  |
|                                      | XAVC-I mode HD 29.97P  |
|                                      | When using QD-G128A (128GB): Approx. 118 minutes, When using QD-G64A (64GB): Approx. 59 minutes  |
|                                      | XAVC-I mode HD 23.98P When using QD-G128A (128GB): Approx. 147 minutes, When using QD-G64A (64GB): Approx. 74 minutes                      |
|                                      | XAVC-I mode HD 25P   |
|                                      | When using QD-G128A (128GB): Approx. 141 minutes, When using QD-G64A (64GB): Approx. 70 minutes  |
|                                      | <xavc long=""></xavc>  |
|                                      | XAVC-L mode QFHD 59.94P/50P When using QD G138A (138GR): Approx. 97 minutes. When using QD G64A (64GR): Approx. 44 minutes.                |
|                                      | When using QD-G128A (128GB): Approx. 87 minutes, When using QD-G64A (64GB): Approx. 44 minutes XAVC-L mode QFHD 29.97P/23.98P/25P mode:    |
|                                      | When using QD-G128A (128GB): Approx. 131 minutes, When using QD-G64A(64GB): Approx. 66 minutes   |
|                                      | XAVC-L 50 mode   |
|                                      | When using QD-G128A (128GB): Approx. 262 minutes, When using QD-G64A (64GB): Approx. 131 minutes   |
|                                      | XAVC-L 35 mode  When using QD-G128A (128GB): Approx. 374 minutes, When using QD-G64A (64GB): Approx. 187 minutes                           |
|                                      | When using QD-G126A (128GB): Approx. 374 minutes, When using QD-G64A (64GB): Approx. 187 minutes  XAVC-L 25 mode                           |
|                                      | When using QD-G128A (128GB): Approx. 524 minutes, When using QD-G64A (64GB): Approx. 262 minutes   |
|                                      | <mpeg-2 gop="" long=""></mpeg-2>   |
|                                      | MPEG HD422 mode  Minor union OD C138A (138CD), Approx 343 minutes Minor union OD C44A (44CD), Approx 131 minutes                           |

| -  |   |   |   |    |   |   |   |
|----|---|---|---|----|---|---|---|
| Di | m | 0 | n | SI | 0 | n | S |
|    |   | _ |   | ٠. | _ |   | _ |



When using QD-G128A (128GB): Approx. 262 minutes, When using QD-G64A (64GB): Approx. 131 minutes





Super35 type Single-chip Exmor CMOS 17:9 4096 (H) x 2160 (V) 16:9 3840 (H) x 2160 (V) Imaging Device (Type)
Effective Picture Elemen Minimum Illumination
S/N Ratio
Shutter Speed
Slow & Quick Motion Function 10.7 Ix (+18dB, 23.98P, Shutter OFF, ND Clear, F1.4)
57 dB (\*) (fypical)
1/3 sec to 1/9,000 sec
XWC-1 mode 3840x2160: 1 to 60 formes (59.94P, 50P, 29.97P, 23.98P, 25P)
XWC-1 mode 1920x1080: 1 to 180 formes (59.94P, 29.97P, 23.98P, 25P)
XWC-1 mode 1920x1080: 1 to 100 formes (59.94P, 50P, 29.97P, 23.98P, 25P)
XWC-1 mode 1920x1080: 1 to 120 formes (59.94P, 50P, 29.97P, 23.98P, 25P)
Preset Memory A, Memory B, (1500k-50000K/ATW)
3, 0, 3, 6, 12, 12 to 8, AGC
STD, HG, User, S-Log3 White Balance Gain Gamma Curve Input/Output XLR-type 3-pin (femole) (x2), line/mic/mic +48 V selectable, Mic Refer BNC (x2), switchable with 3G-SD/HD-SDI SMTR292M442MM42SM USB device, minil ack (x1), -16dBu 16Ω Monoquel Audio Input SDI Output USB
Headphone Output
Speaker Output
DC Input Remote HDMI Output Type A (x1)
4-pin, Type A for W-LAN (x1) Monitoring 8.8 cm (3.5 type), Approx. 1.56M dots Built-in LCD Monito Built-in Microp Media XQD Card slot (x2) SD Card slot (x1) for so Supplied Accessoi Boyd Cap (1)
Viewlinder (1)
Eyepiece (1)
Grip Remole Control (1)
USB wireless LAN module IFU-WIM3 (1)
Wireless remote commander (1) (RMT-845)
WiPAAdaptor Bracket (1)
MPA-ACT AC Adapter (1)
BC-UI bottlers choraer (1) BC-U1 battery charger (1) BP-U30 battery pack (1) Power cord (2) USB cable (1) Operating Guide (2)
CD-ROM "Manuales for Solid-State Memory Camcorder"

## **Accessories**



BP-U60T/BP-U90

Rechargeable Battery pack



Battery Charger/ AC Adaptor



UWP-D11/UWP-D12 Wireless Microphone Package





Not Available

ECM-VG1 Electret Condenser Microphone

ECM-MS2 Electret Condenser Microphone

QD-G128A/QD-G64A/ CBK-WA100 QD-G32A XQD Memory Card

VCT-FS7 Light Weight Rod Support

#### Lenses

| E-mount    |           | A-mount   | Adaptor      |          |        |
|------------|-----------|-----------|--------------|----------|--------|
|            |           |           |              |          | 2      |
| SELP28135G | SEL70200G | SAL100M28 | SAL135F28STF | SAL1635Z | LA-EA4 |

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