

SONY PXW-FS7 MK2



<https://www.youtube.com/watch?v=zMaixGcWBOE>

Overview

Sensor Size: Super 35mm Sensor

Resolution: 4K (compressed not RAW)

Dynamic Range: 14 stops of exposure latitude

Handheld design: built in shoulder mount and hand grip

ISO Sensitivity: ISO 2000 enables you to shoot well in low light situations

Wifi Remote: You can set up this camera to be controlled from a handheld device like your smart phone, tablet or ipad

Frame Rates: Delivers a maximum of 180fps continuous shooting in full HD

Liability/Cost/Insurance

Price for this kit is about \$14,000

When you borrow equipment from the school you are responsible for the full cost of replacement if it is damaged, lost or stolen.

For your protection, insurance is mandatory for all shoots. A detailed guide on insurance procedures and release forms is available on the FMSA support site <http://fmsasupport.ecuad.ca/insurance/>

Kit contents /check condition

Assemble (Lens, battery, viewfinder, handgrip, storage media)

Lens:

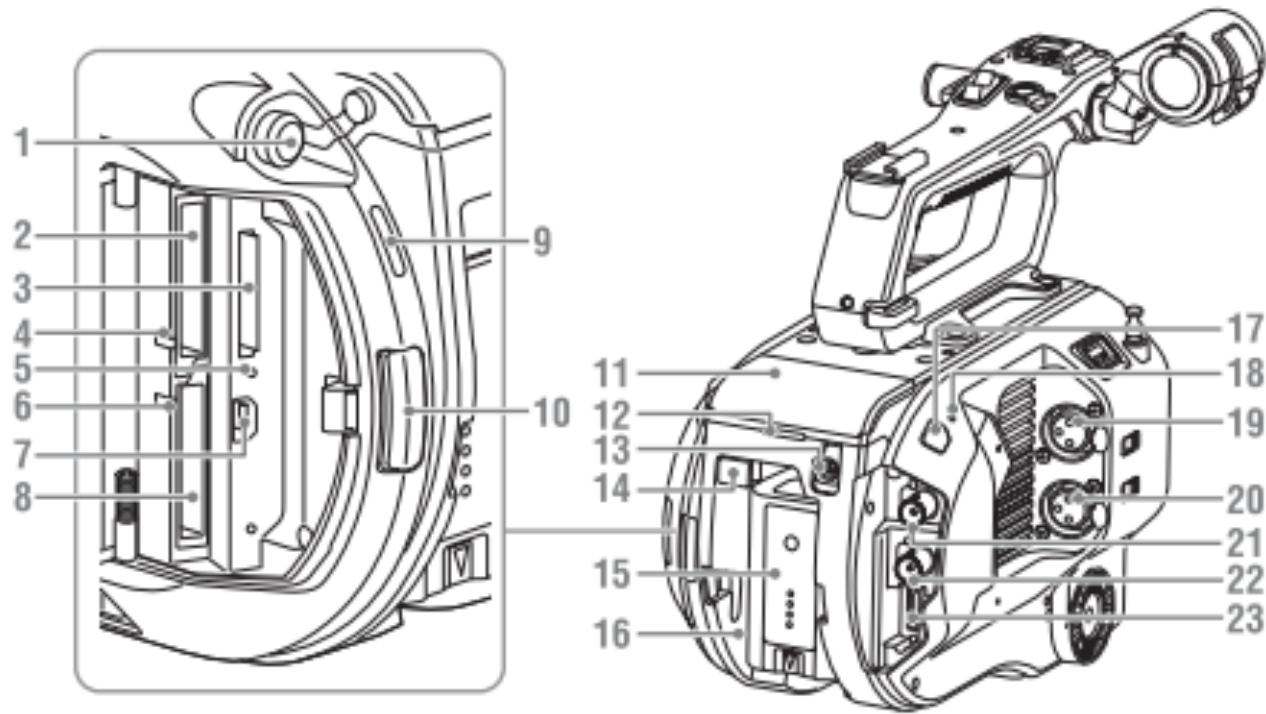
E mount lens, kit comes with EF adaptor to enable you to use our range of EF mount prime lenses.

Battery:

**BPU 60 battery you will have approximately 2 hours recording time
(depending on your settings)**

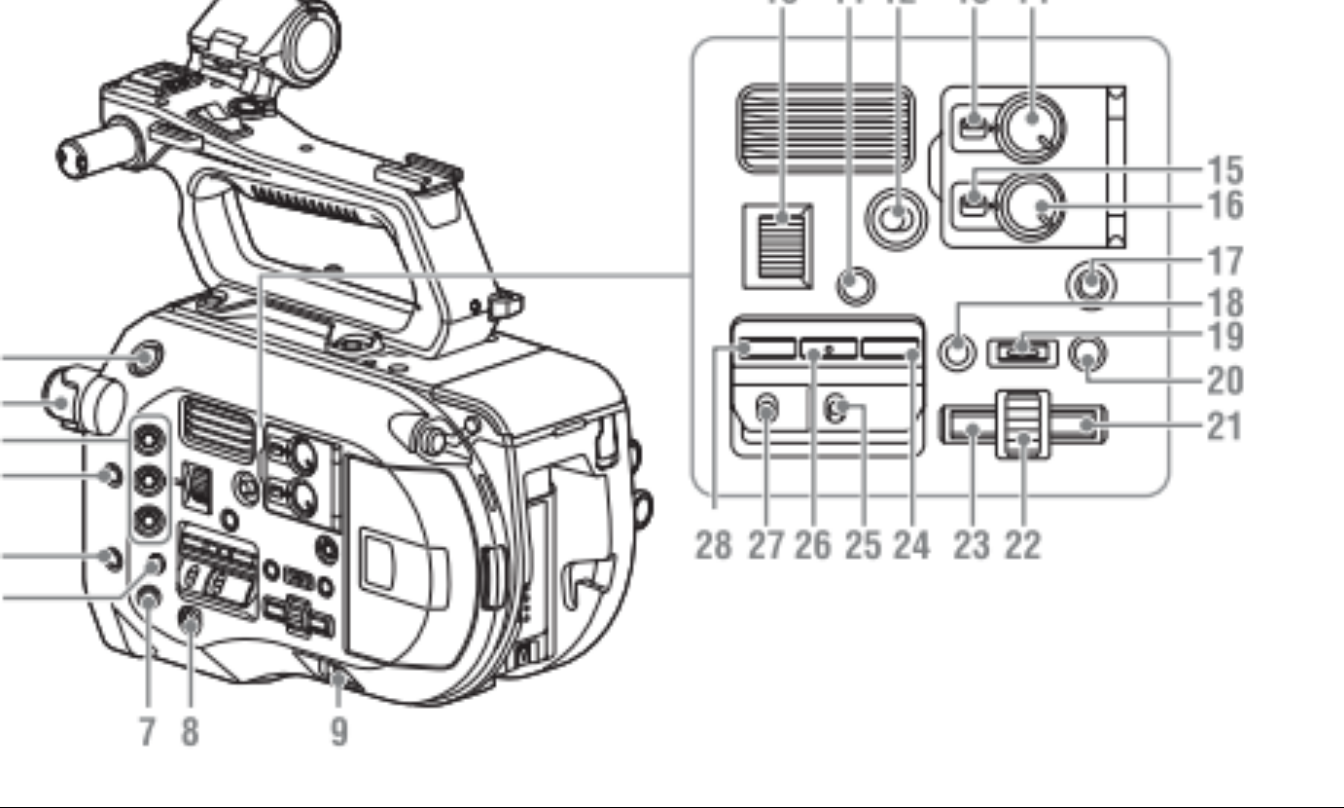
Storage Media:

Sony 128 GB QXD card No Hotswapping!



1. **Headphone connector**
2. **XQD card slot A**
3. SD card (for saving configuration data) slot
4. XQD (A) access indicator
5. SD card access indicator
6. **XQD (B) access indicator**
7. USB connector- connect to a computer using USB to access recording media in an XQD card slot
8. XQD card slot B
9. **Built-in speaker**
10. **Media cover release button**
11. Extension unit connector
12. Rear recording indicator)
13. **DC IN connector**

14. **BATT RELEASE** (battery release) button
15. Battery
16. Battery pack attachment
17. Infrared remote control receiver sensor
18. **Internal microphone**
19. **INPUT1**
20. **INPUT2 (audio input 2) connector**
21. **SDI OUT 1 connector**
22. **SDI OUT 2 connector**
23. **HDMI OUT connector**



1. START/STOP button
2. ND FILTER switch
3. ASSIGN (assignable) 1 to 3 buttons
4. PUSH AUTO IRIS button
5. **PUSH AUTO FOCUS** button
6. **FOCUS** switch
7. **DISPLAY** button
8. FULL AUTO button
9. POWER switch
10. IRIS dial)
11. **STATUS CHECK** button
12. HOLD switch)
13. CH1 (AUTO/MAN) switch
14. AUDIO LEVEL (CH1) dial
15. CH2 (AUTO/MAN) switch
16. AUDIO LEVEL (CH2) dial)
17. SLOT SELECT (XQD memory card select) button
18. CANCEL/BACK button
19. MENU button
20. **THUMBNAIL** button
21. Right button Used to set numeric values and to move the cursor to the right screens and menus.

22. SEL/SET (select/set) dial Turn the dial to move the cursor up/down to select menu items or settings. Press to apply the selected item.
23. Left button Used to set numeric values and to move the cursor to the left on thumbnail screens and menus.
24. SHUTTER button)
25. WHT BAL (white balance memory select) switch
26. WHT BAL (white balance) button
27. **GAIN (gain select) switch**

Initial Camera Set Up

All Reset

System menu>All reset> Execute

Shooting Mode

System>base settings>shooting mode

Custom= conventional video camera operation where what you see in the viewfinder is what is recorded

Cine EI= (Exposure Index) is a film style shooting mode which mimics a film camera. It will produce flat, low contrast recordings with wide dynamic range which contains a lot of information. It requires a more sophisticated workflow (more work in post/ color grading.) Because you capture more than a typical monitor can display the images will come out looking flat and low contrast before you put in the work in post.

COLOR SPACE

If Cine EI mode is chosen you will then need to choose a COLOR SPACE

Recommended color space is S-Log) 3/Sgamut3.cine because it is easier to work with in post however there are several options

ISO

In Cine EI mode you can change the native ISO from 2000 (native) to 1000, 800 etc.

When shooting in Cine EI mode an easy way to change the ISO is with the gain switch. You can change the options here by going into the menu > ISO/Gain/EI> then change values for gain H,M,L

CODEC

System>codec>

Standard camera that we have here has 3 codecs built in:

XACV-I

High Quality- recommended

Offers great picture quality in fairly small file size

10 bit

4:2:2

HD + 4K (1920x1080, 3840X2160, 4096X2160)

MPEG HD422

Mpeg 2

8 bit

4:2:2

HD only (1920X1080 & 1280X720)

Progressive + interlace

No S&Q (slow & quick) motion

XAVC-L

More efficient – takes up only ¼ of space on storage media to XACV-I however It is more labour In post

Long G,O,P codec

10bit HD, 8 bit UHD

4:2:2

You will see other options listed on the menu that are not accessible with our cameras as they require an extension unit providing more codecs such as Prores, Prores HQ and RAW

Set Recording Format

System>Rec Format>Video Format

The options that you get here will depend on the codec you have chosen (ie mpeg 422 is HD only) so here you will choose frame size and bit rate (last two numbers of description is bit rate)

Recording Times

The maximum recording time available will depend on the codec and settings that you choose. For example:

XAVC-I mode QFHD (4K) 23.98P, When using QD-G128A(128GB): Approx. 55 minutes

XAVC-I mode HD (1920X1080) 50i When using QD-G128A(128GB): Approx. 141 minutes

Please refer to the guide here: <http://www.indiecameras.com/codec-settings.html>

Format Card

Media Menu> Format A/B execute

SETTING VIDEO OUTPUTS

Video page of main menu is where we set how the camera outputs video over HDMI or SDI outputs

Please note HD/SDI outputs will only output HD not 4k

If you want to output 4K use the HDMI output

If you choose to work in S-Log 2 or 3 you would use a monitor LUT to help with exposure etc while shooting.

Choose 709(800)MLUT for compatibility. Viewing via this MLUT it will look like regular television

*to use external viltrox monitors recording format must be HD only (we have on 4K monitor now which would be compatible)
output setting must be 1920x1080 Interlaced (progressive won't work)

TURN ON MLUT

Video>Monitor LUT

Select LUTS 709(800)MLUT

apply to – Viewfinder + SDI2 + HDMI out

DO NOT apply to SDI1& Internal – this will apply to the recorded footage whereas we just want to use the MLUT for monitoring

The User Menu

This is where you will find quick access to most functions you will need readily on hand

Focus Aids

Focus magnifier

Assigned to button 4 on handgrip

Peaking

Turn on and off via button on side of viewfinder

Focus assist indicator

One push focus aid in manual focus

Press auto focus and it will quickly focus for you then release will go back to manual

Additional Resources

FMSA Support Site

fmsasupport@ecuad.ca

Sony PXW FS7 Manual

<https://www.manualslib.com/manual/972510/Sony-Pxw-Fs7.html>

Contact

Zoe + Raf + Matt

FMSA tech office

D1324