# Clifton Cameras Product Specification

## Sony FDR-AX700 4K HDR Camcorder Full Spec

**Sensor**

**SENSOR TYPE**

1.0-type (13.2mm x 8.8mm) stacked Exmor RS CMOS sensor

**EFFECTIVE PIXELS (VIDEO)**

Approx.14.2M pixels(16:9)

**EFFECTIVE PIXELS (STILL IMAGE)**

Approx.14.2M pixels(16:9)/Approx.12.0M pixels(3:2)

**Processor**

**IMAGE PROCESSOR**

BIONZ X image processor

**Lens**

**LENS TYPE**

ZEISS Vario-Sonnar T\*

**FILTER DIAMETER**

62mm

**LENS COVER**

Lens Cap

**APERTURE**

F2.8-F4.5

**FOCAL DISTANCE**

f=9.3-111.6mm

**FOCAL LENGTH (35 MM EQUIVALENT) (VIDEO)**

f=29.0-348.0mm(16:9)

**FOCAL LENGTH (35 MM EQUIVALENT) (STILL IMAGE)**

f=29.0-348.0mm(16:9),f=32.8-393.6mm(3:2)

**MINIMUM FOCUS DISTANCE**

Approx.13/32inch(Wide),Approx.39 3/8inch(Tele), Approx.1cm(Wide),Approx.100cm(Tele)

**IRIS DIAPHRAGM**

7 blades

**ND FILTER**

OFF, 1/4, 1/16, 1/64

**Zoom**

**OPTICAL ZOOM**

12x

**CLEAR IMAGE ZOOM**

4K : 18x, HD : 24x

**DIGITAL ZOOM**

192x

**Viewfinder**

**VIEWFINDER TYPE**

1.0cm(0.39type) OLED/ Color 2,359,296dots equivalent

**FIELD OF VIEW**

100%

**DIOPTER ADJUSTMENT**

Yes

**LCD**

**SCREEN TYPE**

8.8cm(3.5 type) Xtra Fine LCD™ display(1555K) Wide(16:9)

**TOUCH PANEL**

Yes

**BRIGHTNESS CONTROL**

Yes(Menu)

**MARKER/GRID DISPLAY**

Marker

**ANGLE ADJUSTMENT**

Opening Angle:max.90 deg., Turning Angle:max.270 deg.

**Image Stabilization**

**IMAGE STABILIZATION TYPE**

Optical SteadyShot image stabilization w/ Active mode (Wide to Tele)

**Focus**

**FOCUS TYPE**

Fast Hybrid AF(phase-detection AF/contrast-detection AF)

**FOCUS POINTS**

Max.273points(phase-detection AF)

**AF DRIVE SPEED**

Yes(7steps)

**AF SUBJECT TRACK SET**

Yes(AF Tracking Depth(5steps), AF Subject Switching Sensitivity(5steps))

**FOCUS MODE**

Auto/Manual(Touch Panel/Dial)

**FOCUS AREA**

Wide/Zone/Center/Flexible Spot

**PHASE AF FRAMES**

Yes(On/Off)

**FAST INTELLIGENT AF**

-

**LOCK-ON AF**

Yes

**MANUAL FOCUS ASSIST**

Magnified display for precise manual focus (x4/x8), Peaking Display

**Exposure**

**MODE**

Auto, Flexible Spot(Touch Panel), Manual(Dial/Menu)

**METERING MODES**

Multi-segment/Spot

**EXPOSURE COMPENSATION**

AE Shift(Dial/Touch Panel)

**LOW LUX MODE**

Yes

**AUTO IRIS CONTROL**

F2.8-F11

**MANUAL IRIS CONTROL**

F2.8-F11

**MANUAL EXPOSURE ASSIST**

Zebra Pattern Display

**BACKLIGHT COMPENSATION**

Yes(Auto)

**GAIN CONTROL**

Auto/Manual

**AGC LIMIT**

Yes

**MINIMUM ILLUMINATION**

[NTSC] Standard:3 lux(1/60 Shutter Speed), Low Lux 1.7lux(1/30 Shutter Speed), NightShot:0 lux(1/60 Shutter Speed), [PAL] Standard:3 lux(1/50 Shutter Speed), Low Lux 1.7lux(1/25 Shutter Speed), NightShot:0 lux(1/50 Shutter Speed)

**Shutter Speed**

**AUTO CONTROL RANGE**

[NTSC] 1/8-1/10000 [PAL] 1/6-1/10000

**STANDARD**

[NTSC] 1/60-1/10000 [PAL] 1/50-1/10000

**MANUAL IRIS CONTROL　(PHOTO MODE)**

[NTSC] 1/60-1/10000 [PAL] 1/50-1/10000

**MANUAL SHUTTER**

[NTSC] 1/8-1/10000 [PAL] 1/6-1/10000

**SMOOTH SLOW**

-

**White Balance**

**WHITE BALANCE MODES**

Auto/Onepush A/Onepush B/Outdoor/Indoor/WB Temp

**WHITE BALANCE SHIFT**

Yes(Outdoor -7to+7 15steps)

**Flash**

FLASH METERING SYSTEM

FLASH COMPENSATION

FLASH MODE

**Storage Media**

**MEDIA TYPE**

AVCHD,Still: Memory Stick PRO Duo (Mark 2), Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, SD/SDHC/SDXC Memory Card(Class 4 or Higher), XAVC S 4K(100Mbps) : SDXC Memory Card(UHS-I U3), XAVC S 4K(60Mbps) : SDXC Memory Card(Class10 or Higher), XAVC S HD : SDXC Memory Card(Class10 or Higher)

**INTERNAL MEDIA**

-

**Recording**

**RECORDING FORMAT (VIDEO)**

AVCHD format ver.2.0 compatible:MPEG4-AVC/H.264, XAVC S format: MPEG4-AVC/H264, XAVC S Proxy: MPEG-4 AVC/H.264

**VIDEO RESOLUTION**

[NTSC] XAVC S 4K: 3840 x 2160/30p, 24p XAVC S HD: 1920 x 1080/120p, 60p, 30p, 24p AVCHD: 1920 x 1080/60i (FX, FH), 1440 x 1080/60i (LP) XAVC S Proxy: 1280 x 720/60p, 30p, 24p, 640 x 360 60p, 30p, 24p [PAL] XAVC S 4K: 3840 x 2160/25p XAVC S HD: 1920 x 1080/100p, 50p, 25p AVCHD: 1920 x 1080/50i (FX, FH), 1440 x 1080/50i (LP) XAVC S Proxy: 1280×720/50p,25p, 640×360/50p,25p

**SLOW & QUICK MOTION (S&Q)**

[NTST] Rec Format 4K: 30p, 24p/HD: 60p, 30p, 24p Frame Rate 4K: 1fps, 2fps, 4fps, 8fps,15fps, 30fps Frame Rate HD: 1fps, 2fps, 4fps, 8fps,15fps, 30fps, 60fps,120fps [PAL] Rec Format 4K:25p/HD:50p,25p Frame Rate 4K:1fps,2fps,3fps,6fps,12fps,25fps/ HD:1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps

**SUPER SLOW MOTION (SS)**

[NTSC] Rec Format HD: 60p, 30p, 24p Frame Rate HD: 240fps, 480fps, 960fps [PAL] Rec Format HD:50p,25p Frame Rate HD:250fps,500fps,1000fps

**VIDEO RECORDING RATE (ABR/VBR)**

XAVC S 4K : Approx.100Mbps, 60Mbps, XAVC S HD: Approx.100Mbps (1920 x 1080/120p,100p), 60Mbps (1920 x 1080/120p,100p), 50Mbps, 25Mbps, 16Mbps/ AVCHD FX: Approx. 24Mbps, FH: Approx.17Mbps, LP: Approx. 5Mbps, XAVC S Proxy: Approx.9Mbps (1280×720)/Approx.3Mbps (640×360)

**RECORDING FORMAT (STILL IMAGE)**

JPEG (DCF Ver.2.0, Exif Ver.2.3, MPF Baseline compliant)

**PICTURE PROFILE**

Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Standard, Still, Cine1-4, ITU709, ITU709(800%), S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode (Standard, Still, Cinema, Pro, ITU709 Matrix, B/W, S-Gamut, S-Gamut3.Cine, S-Gamut3), Saturation, Color Phase, Color Depth, Color Correction, WB Shift, Detail, Copy, Reset

**PROXY RECORDING**

Yes

**STILL IMAGE SIZE (PHOTO MODE)**

12.0 megapixels 3:2 (4240x2824), 14.2 megapixels 16:9 (5024x2824)

**Audio**

**MICROPHONE**

Built-in Stereo Microphone

**AUDIO RECORDING FORMAT**

Dolby Digital 2ch Stereo, Dolby Digital Stereo Creator, MPEG-4 AAC-LC 2ch, MPEG-4 Linear PCM 2ch(48kHz/16bit)

**MIC LEVEL CONTROL**

Yes(31steps)

**AUTO WIND NOISE REDUCTION**

-

**MY VOICE CANCELING**

-

**SPEAKER**

Monoral Speaker

**Advanced Feature**

**HIGH SPEED REC**

-

**SCENE SELECTION**

Night Scene/Sunrise & Sunset/Fireworks/Landscape/Portrait/Spotlight/Beach

**NIGHTSHOT INFRARED SYSTEM**

Yes

**TIME CODE/USER BIT**

Yes

**OTHER FEATURES**

Face Detection, Intelligent Auto(Portrait/Baby/Walk/Tripod/Backlight/Landscape/Spotlight/Twilight/Macro/Low light)

**Playback**

**FAST PLAYBACK**

About 5 times/10 times/30 times/60 times

**SLOW PLAYBACK**

Forwad:1/5 speed, Reverse:1/2 speed

**TRIMMING PLAYBACK**

-

**MOTION SHOT VIDEO**

-

**SLIDE SHOW (STILL IMAGE)**

-

**Projector**

LIGHT OUTPUT

-

RESOLUTION OUTPUT

-

PROJECTED IMAGE SIZE

-

ENDURANCE (BATTERY LIFE)

-

PROJECTOR INPUT

-

KEYSTONE ADJUSTMENT

-

Wireless Function

**WI-FI®**

Yes(Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band) )

**NFC™**

Yes (NFC forum Type 3 Tag compatible)

**Terminal / Shoe**

**ACCESSORY SHOE**

Yes(Multi Interface Shoe)

**HDMI TERMINAL**

Yes (HDMI)

**PROJECTOR INPUT**

-

**MULTI/MICRO USB TERMINAL**

Yes

**REMOTE TERMINAL**

integrated into Multi/Micro USB Terminal/Stereo mini-mini jack (Φ2.5mm)

**STD OUTPUT**

Composite Video Out(AV Cable(sold separately))

**MICROPHONE INPUT**

Stereo Minijack

**HEADPHONE JACK**

Stereo Minijack

**MEMORY CARD SLOT**

Slot A:Memory Stick PRO Duo and SD/SDHC/SDXC cards compatible, Slot B:SD/SDHC/SDXC cards compatible

**DC IN**

Yes

**Power**

**BATTERY TYPE**

InfoLITHIUM with AccuPower Meter System (V Series)

**POWER CONSUMPTION (LCD)**

4K:5.1W

**POWER CONSUMPTION (VIEWFINDER)**

4K:4.8W

**POWER REQUIREMENTS**

7.4V (battery pack), 8.4V (AC Adaptor)

**CHARGE ON CAMCORDER (CHARGING TIME WITH SUPPLIED BATTERY)**

Yes(Approx. 2h 50min)

**USB CHARGING**

-

**USB POWER SUPPLY**

-

**Size & Weight**

**DIMENSIONS (W X H X D) (MAIN UNIT ONLY)**

Approx.116×89.5×196.5mm(Approx.121×104×274.5mm(including Lens Hood and Large Eyecup)), Approx.4 5/8 x 3 5/8 x 7 3/4inch(Approx.4 7/8 x 4 1/8 x 10 7/8 in(including Lens Hood and Large Eyecup))

**DIMENSIONS (W X H X D) (INCLUDING SUPPLIED BATTERY)**

Approx.116×89.5×196.5mm(Approx.121×104×274.5mm(including Lens Hood and Large Eyecup)), Approx.4 5/8 x 3 5/8 x 7 3/4inch(Approx.4 7/8 x 4 1/8 x 10 7/8 in(including Lens Hood and Large Eyecup))

**WEIGHT (MAIN UNIT ONLY)**

Approx.2lb 1oz(including Lens Hood and Large Eyecup), Approx.935g(including Lens Hood and Large Eyecup)

**WEIGHT (INCLUDING SUPPLIED BATTERY)**

Approx.1030g(NP-FV70A)(supplied battery), Approx.1080g(NP-FV100A), Approx.2lb 2.7oz(NP-FV50A), Approx.2lb 4.3oz(NP-FV70A)(supplied battery), Approx.2lb 6.1oz(NP-FV100A), Approx.985g(NP-FV50A)

**What's In The Box**

* Rechargeable Battery Pack(NP-FV70A) (1)
* AC Adaptor (1)
* Power Cord (1)
* "Operating Guide"(1)
* Remote Commander(RMT-835 with Battery(CR2025)) (1)
* Lens Hood (1)
* Lens Cap (1)
* Large Eyecup (1)