# Clifton Cameras Product Specification

## Sony Alpha A7 Mark III Camera Full Spec

Specifications

**WHAT'S IN THE BOX**

* AC Adaptor AC-UUE12
* Accessory shoe cap
* Body cap
* Eyepiece cup
* Lens cap
* Lens hood
* Lens rear cap
* Micro USB cable
* Rechargeable Battery NP-FZ100
* SEL2870
* Shoulder strap

**Lens**

* LENS COMPATIBILITY
	+ Sony E-mount lenses
* LENS MOUNT
	+ E-mount

**Image Sensor**

* ASPECT RATIO
	+ 3:2
* NUMBER OF PIXELS (EFFECTIVE)
	+ Approx. 24.2 megapixels
* NUMBER OF PIXELS (TOTAL)
	+ Approx. 25.3 megapixels
* SENSOR TYPE
	+ 35mm full frame (35.6×23.8mm), Exmor R CMOS sensor
* ANTI-DUST SYSTEM
	+ Charge protection coating on optical filter and image sensor shift mechanism

**Recording (still images)**

* RECORDING FORMAT
	+ JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
* IMAGE SIZE (PIXELS) [3:2]
	+ 35mm full frame L: 6000 x 4000 (24M), M: 3936 x 2624 (10M), S: 3008 x 2000 (6.0M), APS-C L: 3936 x 2624 (10M), M: 3008 x 2000 (6.0M), S: 1968 x 1312 (2.6M)
* IMAGE SIZE (PIXELS) [16:9]
	+ 35mm full frame L: 6000 x 3376 (20M), M: 3936 x 2216 (8.7M), S: 3008 x 1688 (5.1M), APS-C L: 3936 x 2216 (8.7M), M: 3008 x 1688 (5.1M), S: 1968 x 1112 (2.2M)
* IMAGE SIZE (PIXELS) [SWEEP PANORAMA]
	+ -
* IMAGE QUALITY MODES
	+ RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)
* PICTURE EFFECT
	+ 8 types: Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key , Rich-tone Monochrome
* CREATIVE STYLE
	+ Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
* PICTURE PROFILE
	+ Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
* DYNAMIC RANGE FUNCTIONS
	+ Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step))
* COLOUR SPACE
	+ sRGB standard (with sYCC gamut) and Adobe RGB standard, compatible with TRILUMINOS Color
* 14BIT RAW
	+ Yes
* UNCOMPRESSED RAW
	+ Yes

**Recording (movie)**

* RECORDING FORMAT
	+ XAVC S, AVCHD format Ver. 2.0 compliant
* VIDEO COMPRESSION
	+ XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264
* AUDIO RECORDING FORMAT
	+ XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator
* COLOUR SPACE
	+ xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color
* PICTURE EFFECT
	+ Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key
* CREATIVE STYLE
	+ Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
* PICTURE PROFILE
	+ Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
* IMAGE SIZE (PIXELS), NTSC
	+ XAVC S 4K: 3840 x 2160 (30p, 100M), 3840 x 2160 (24p, 100M), 3840 x 2160 (30p, 60M), 3840 x 2160 (24p, 60M), XAVC S HD: 1920 x 1080 (120p, 100M), 1920 x 1080 (120p, 60M), 1920 x 1080 (60p, 50M), 1920 x 1080 (30p, 50M), 1920 x 1080 (24p, 50M), 1920 x 1080 (60p, 25M), 1920 x 1080 (30p, 16M), AVCHD: 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH)
* IMAGE SIZE (PIXELS), PAL
	+ XAVC S 4K: 3840 x 2160 (25p, 100M), 3840 x 2160 (25p, 60M), XAVC S HD:1920 x 1080 (100p, 100M), 1920 x 1080(100p, 60M), 1920 x 1080 (50p, 50M), 1920 x 1080 (25p, 50M), AVCHD:1920 x 1080 (50i, 24M, FX), 1920 x 1080 (50i, 17M, FH)
* IMAGE FRAME RATE
	+ NTSC mode: 1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps, PAL mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps
* IMAGE SIZE (FRAME RATE)
	+ NTSC mode: 1920x1080 (60p, 30p, 24p), PAL mode: 1920x1080 (50p, 25p)
* MOVIE FUNCTIONS
	+ Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Yes (1280 x 720 (Approx.9Mbps)), TC/UB (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec), Auto Slow Shutter, REC Control, Clean HDMI Info. (ON/OFF selectable), Gamma Disp. Assist
* CLEAN HDMI OUTPUT
	+ 3840 x 2160 (25p), 1920 x 1080 (50p), 1920 x 1080 (50i), 1920 x 1080 (24p), 1920 x 1080 (60p), 1920 x 1080 (60i), 3840 x 2160 (30p), 3840 x 2160 (24p), YCbCr 4:2:2 8bit / RGB 8bit

**Recording System**

* LOCATION INFORMATION LINK FROM SMARTPHONE
	+ Yes
* MEDIA
	+ Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant), microSD memory card, microSDHC memory card, microSDXC memory card
* MEMORY CARD SLOT
	+ SLOT1: Slot for SD (UHS-I/II compliant) memory card, SLOT2: Multi slot for Memory Stick Duo/SD (UHS-I compliant) memory card
* RECORDING MODE ON 2 MEMORY CARDS
	+ Simult. Rec (Still), Simult. Rec (Movie), Simult. Rec (Still/,Movie), Sort (JPEG/RAW), Sort (Still/Movie), Auto Switch Media (On/Off), Copy

**Noise Reduction**

* NOISE REDUCTION
	+ Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low/Off
* MULTI FRAME NR
	+ -

**White Balance**

* WHITE BALANCE MODES
	+ Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent /,Warm White / Cool White / Day White / Daylight/ Flash / Underwater / Color Temperature2500 to 9900K& color filterG7 to M7 (57-step), A7 to B7 (29-step)/ Custom
* AWB MICRO ADJUSTMENT
	+ Yes G7 to M7, 57-step A7 to B7, 29-step
* PRIORITY SET IN AWB
	+ Yes
* BRACKETING
	+ 3 frames, H/L selectable

**Focus**

* FOCUS TYPE
	+ Fast Hybrid AF (phase-detection AF/contrast-detection AF)1
* FOCUS SENSOR
	+ Exmor R CMOS sensor
* FOCUS POINT
	+ 35mm full frame: 693 points (phase-detection AF), APS-C mode with full frame lens: 299 points (phase-detection AF), with APS-C lens: 221 points (phase-detection AF) / 425 points (contrast-detection AF)
* FOCUS SENSITIVITY RANGE
	+ EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached)
* FOCUS MODE
	+ AF-A (Automatic AF), AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus
* FOCUS AREA
	+ Wide (693 points (phase-detection AF), 425 points (contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L) /Expanded Flexible Spot/ Lock-on AF ( Wide / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot)
* OTHER FEATURES
	+ Eye-start AF (only with LA-EA2 or LA-EA4 attached (sold separately)), Lock-on AF, Eye AF, AF micro adjustment with LA-EA2 or LA-EA4 (sold separately), Predictive control, Focus lock, AF Track Sens, Swt.V/H AF Area, AF Area Regist.
* AF ILLUMINATOR
	+ Yes (with Built-in LED type)
* AF ILLUMINATOR RANGE
	+ Approx. 0.3m - approx. 3.0m (with FE 28-70mm F3.5-5.6 OSS attached)
* FOCUS TYPE WITH LA-EA3 (SOLD SEPARATELY)
	+ selectable (phase-detection, contrast-detection)

**Exposure**

* METERING TYPE
	+ 1200-zone evaluative metering
* METERING SENSOR
	+ Exmor R CMOS sensor
* METERING SENSITIVITY
	+ EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)
* METERING MODE
	+ Multi-segment, Center-weighted, Spot, Spot Standard/Large, Entire Screen Avg., Highlight
* EXPOSURE COMPENSATION
	+ +/- 5.0EV (1/3 EV, 1/2 EV steps selectable) (with exposure compensation dial: +/- 3EV (1/3 EV steps))
* EXPOSURE BRACKETING
	+ Bracket: Cont., Bracket: Single, 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, or 1.0 EV increments
* AE LOCK
	+ Locked when shutter button is pressed halfway. Available with AE lock button (On/Off/Auto)
* EXPOSURE MODES
	+ AUTO (iAuto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Movie (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) ), Slow & Quick Motion (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) ), Scene Selection
* ISO SENSITIVITY (RECOMMENDED EXPOSURE INDEX)
	+ Still images: ISO 100-51200 (ISO numbers up from ISO 50 to ISO 204800 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit), Movies: ISO 100-51200 equivalent(ISO numbers up ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit)
* ANTI-FLICKER SHOOT.
	+ Yes
* SCENE SELECTION
	+ Portrait, Sports Action, Macro, Landscape, Sunset, Night Scene, Night Portrait

**Viewfinder**

* VIEWFINDER TYPE
	+ 1.3 cm (0.5 type) electronic viewfinder (color), XGA OLED
* NUMBER OF DOTS
	+ 2 359 296 dots
* BRIGHTNESS CONTROL (VIEWFINDER)
	+ Auto/Manual (5 steps between -2 and +2)
* COLOR TEMPERATURE CONTROL
	+ Manual (5 steps)
* FIELD COVERAGE
	+ 100%
* MAGNIFICATION
	+ approx. 0.78 x (with 50mm lens at infinity, -1m-1)
* DIOPTRE ADJUSTMENT
	+ -4.0 to +3.0m-1
* EYE POINT
	+ Approx. 23mm from the eyepiece lens, 18.5mm from the eyepiece frame at -1m-1 (CIPA Standard)
* FINDER FRAME RATE SELECTION
	+ -
* DISPLAY CONTENTS
	+ Graphic Display, Display All Info., No Disp. Info., Digital Level Gauge, Histogram

**LCD Screen**

* MONITOR TYPE
	+ 7.5cm (3.0-type) type TFT
* NUMBER OF DOTS
	+ 921,600 dots
* TOUCH PANEL
	+ Yes
* BRIGHTNESS CONTROL
	+ Manual (5 steps between -2 and +2), Sunny Weather mode
* ADJUSTABLE ANGLE
	+ Up by approx. 107 degrees, Down by approx. 41 degrees
* DISPLAY SELECTER (FINDER/LCD)
	+ Yes (Auto/Manual)
* REAL-TIME IMAGE ADJUSTMENT DISPLAY (LCD)
	+ On/Off
* QUICK NAVI
	+ Yes
* FOCUS MAGNIFIER
	+ Yes (35mm full frame: 5.9x, 11.7x, APS-C: 3.8x, 7.7x)
* ZEBRA
	+ Yes (selectable level + range or lower limit as custom setting)
* PEAKING MF
	+ Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
* OTHERS
	+ Grid Line (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off), Movie Marker (Center/Aspect/Safety Zone/Guideframe)
* DISPLAY CONTENT
	+ Graphic Display, Display All Info, No Disp. Info, Digital Level Gauge, Histogram,For viewfinder, Monitor Off

**Other Features**

* PLAYMEMORIES CAMERA APPS™
	+ -
* CLEAR IMAGE ZOOM
	+ Still images: Approx. 2x, Movies:Approx. 1.5x (4K), Approx. 2x (HD)
* DIGITAL ZOOM
	+ Smart zoom (Still images): 35mm full frame: M: approx 1.5x, S: approx 2x, APS-C: M: approx 1.3x, S: approx 2x, Digital zoom (Still images): 35mm full frame: L: approx 4x, M: approx 6.1x, S: approx 8x, APS-C: L: approx 4x, M: approx 5.2x, S: approx 8x,Digital zoom (Movie): 35mm full frame: approx 4x, APS-C: approx 4x
* FACE DETECTION
	+ Modes: Face Priority in AF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off), Face registration, Max. number of detectable: 8
* SELF-PORTRAIT SELF-TIMER
	+ -
* OTHERS
	+ Touch Focus: Yes (Available with LCD monitor or Viewfinder operation), ISO AUTO Min. SS, Bright Monitoring, Set File Name, FTP Transfer Func., Help guide, Area Setting, Shop Front Mode, Video Light Mode, Zoom Ring Rotate
* EYE-FI READY
	+ -

**Shutter**

* TYPE
	+ Electronically-controlled, vertical-traverse, focal-plane type
* SHUTTER TYPE
	+ -
* SHUTTER SPEED
	+ Still images: 1/8000 to 30 sec, Bulb, Movies: 1/8000 to 1/4 (1/3 steps), up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode),
* FLASH SYNC. SPEED
	+ 1/250 sec.2
* ELECTRONIC FRONT CURTAIN SHUTTER
	+ Yes (ON/OFF)
* SILENT SHOOTING
	+ Yes (ON/OFF)

**Image Stabilization**

* TYPE
	+ Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)
* COMPENSATION EFFECT
	+ 5.0 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T\* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)

**Flash Control**

* CONTROL
	+ Pre-flash TTL
* FLASH COMPENSATION
	+ +/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
* FLASH BRACKETING
	+ 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, 1.0 EV increments.
* FLASH MODES
	+ Flash off, Autoflash, Fill-flash, Slow Sync., Rear Sync., Red-eye reduction (on/off selectable), Wireless3, Hi-speed sync.3
* EXTERNAL FLASH COMPATIBILITY
	+ Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe
* FE LEVEL LOCK
	+ Yes
* WIRELESS CONTROL
	+ Yes (Light signal: Available with Fill-flash, Slow Sync., Hi-speed sync. /Radio signal: Available with Fill-flash, Rear Sync., Slow Sync., Hi-speed sync.)

**Drive**

* DRIVE MODES
	+ Single Shooting, Continuous shooting (Hi+/Hi/Mid/Lo selectable), Self-timer, Self-timer (Cont.), Bracket: Single, Bracket: Cont., White Balance bracket, DRO bracket
* CONTINUOUS DRIVE SPEED (APPROX. MAX.)
	+ Continuous shooting: Hi+: max. 10 fps, Hi: max. 8 fps, Mid: max. 6fps, Lo: max. 3 fps 4
* NO. OF RECORDABLE FRAMES (APPROX.)
	+ JPEG Extra fine L: 163 frames, JPEG Fine L: 172 frames, JPEG Standard L: approx. 177 frames, RAW: 89 frames, RAW & JPG: 79 frames, RAW (Uncompressed): 40 frames, RAW (Uncompressed) & JPG: 36 frames  4
* SELF-TIMER
	+ 10 sec. delay/5 sec. delay/2 sec. delay/Continuous self-timer (3 frames after 10 sec. delay/5 frames after 10 sec. delay/3 frames after 5 sec. delay/5 frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer

**Playback**

* PHOTO CAPTURE
	+ Yes
* MODES
	+ Single (with or without shooting information Y RGB histogram & highlight/shadow warning), 9/25-frame index view, Enlarged display mode (L: 18.8x, M: 12.3x, S: 9.4x), Auto Review (10/5/2 sec, Off), Image orientation (Auto/Manual/Off selectable), Slideshow, Folder selection (Date/ Still/ AVCHD/XAVC S HD/XAVC S 4K), Forward/Rewind (movie), Delete,Protect, Rating, Disp Cont Shoot Grp

**Interface**

* PC INTERFACE
	+ Mass-storage, MTP, PC remote
* MULTI / MICRO USB TERMINAL
	+ Yes5
* USB TYPE-C™ TERMINAL
	+ Yes (SuperSpeed USB (USB 3.1 Gen 1) compatible)
* NFC™
	+ Yes (NFC forum Type 3 Tag compatible), One-touch remote, One-touch sharing
* WIRELESS LAN (BUILT-IN)
	+ Wi-Fi Compatible, IEEE 802.11b/g/n (2.4GHz band), View on Smartphone, Remote control via Smartphone, Send to Computer, View on TV
* BLUETOOTH
	+ Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
* HD OUTPUT
	+ HDMI micro connector (Type-D),BRAVIA Sync (Control for HDMI), PhotoTV HD, 4K movie output/4K still image PB
* MULTI INTERFACE SHOE
	+ Yes6
* AUTO-LOCK ACCESSORY SHOE
	+ -
* SMART ACCESSORY TERMINAL 2
	+ -
* MIC TERMINAL
	+ Yes (3.5 mm Stereo minijack)
* DC IN TERMINAL
	+ -
* SYNC TERMINAL
	+ -
* HEADPHONE TERMINAL
	+ Yes (3.5 mm Stereo minijack)
* VERTICAL GRIP CONNECTOR
	+ Yes
* PC REMOTE
	+ Yes
* LAN TERMINAL
	+ -

**Audio**

* MICROPHONE
	+ Built-in stereo microphone or XLR-K2M/XLR-K1M/ECM-XYST1M (sold separately)
* SPEAKER
	+ Built-in,monaural

**Print**

* COMPATIBLE STANDARDS
	+ Exif Print, Print Image Matching III, DPOF setting

**Custom function**

* TYPE
	+ Custom key settings,Programmable Setting (Body 2 sets /memory card 4 sets), My Menu, Reg Cust Shoot Set

**Lens Compensation**

* SETTING
	+ Peripheral Shading, Chromatic Aberration, Distortion

**Power**

* SUPPLIED BATTERY
	+ One rechargeable battery pack NP-FZ100
* BATTERY LIFE (STILL IMAGES)
	+ Approx. 610 shots (Viewfinder) / approx. 710 shots (LCD monitor) (CIPA standard)7
* BATTERY LIFE (MOVIE, ACTUAL RECORDING)
	+ Approx. 115 min (Viewfinder) / Approx. 125 min (LCD monitor) (CIPA standard)89
* BATTERY LIFE (MOVIE, CONTINUOUS RECORDING)
	+ Approx. 200 min (Viewfinder) / Approx. 210 min (LCD monitor) (CIPA standard)810
* INTERNAL BATTERY CHARGE
	+ Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)
* POWER CONSUMPTION WITH VIEWFINDER
	+ Still images: approx. 3.2W (with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 4.9W (with FE 28-70mm F3.5-5.6 OSS lens attached)
* POWER CONSUMPTION WITH LCD SCREEN
	+ Still images: approx. 2.8W (with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 4.7W (with FE 28-70mm F3.5-5.6 OSS lens attached)
* USB POWER SUPPLY
	+ Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)

**Others**

* OPERATING TEMPERATURE
	+ 32 - 104 degrees F / 0 - 40 degrees C

**Size & Weight**

* WEIGHT (WITH BATTERY AND MEMORY CARD INCLUDED)
	+ Approx. 650 g / 1lb 7.0 oz
* DIMENSIONS (W X H X D)
	+ Approx. 126.9mm x 95.6mm x 73.7mm, Approx. 126.9mm x 95.6mm x 62.7mm (from grip to monitor)/Approx. 5 x 3 7/8 x 3 inches, Approx. 5 x 3 7/8 x 2 1/2 inches (from grip to monitor)