



## Clifton Cameras Product Specification

### Sony Alpha A6400 Camera Full Spec

#### General

**Battery** NP-FW50 **Battery Life** Up to 410 shots on Viewfinder **Weight** Approx. 14.3 oz / Approx. 403 g  
**Dimensions** Approx. 120.0 mm x 66.9 mm x 59.7 mm, Approx. 120.0 mm x 66.9 mm x 49.9 mm (from grip to monitor)/Approx. 4 3/4" x 2 3/4" x 2 3/8", Approx. 4 3/4" x 2 3/4" x 2" (from grip to monitor)

#### Lens Mount

Lens Mount Compatibility: **Sony E-Mount Lenses**

#### Imaging

Aspect Ratio **3:2**, Effective Megapixels **24.2(approx.)**, Sensor type **APS-C 23.5x15.6mm EXMOR CMOS Sensor**

#### Image recording (stills)

**Recording Formats** JPEG/RAW, **Image quality** RAW/RAW & JPEG (Extra fine, Fine, Standard)/ JPEG (Extra fine, Fine, Standard), **Creative Styles:** 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 Ranges** 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, **14 Bit RAW** YES.

#### Video recording

**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 Sizes (px)** XAVC S 4K: 3840 x 2160 (30p, 100 M), 3840 x 2160 (24p, 100 M), 3840 x 2160 (30p, 60 M), 3840 x 2160 (24p, 60 M), XAVC S HD: 1920 x 1080 (120p, 100 M), 1920 x 1080 (120p, 60 M), 1920 x 1080 (60p, 50 M), 1920 x 1080 (30p, 50 M), 1920 x 1080 (24p, 50 M), 1920 x 1080 (60p, 25 M), 1920 x 1080 (30p, 16 M), AVCHD: 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH) **Frame Rates** NTSC mode: 1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps, PAL mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps **Image Sizes** NTSC mode: 1920 x 1080 (60p, 30p, 24p), PAL mode: 1920 x 1080 (50p, 25p) **Movie Functions** Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Proxy Recording (1280 x 720 (Approx. 9 Mbps)), 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 **HDMI Output** 3840 x 2160 (30p), 3840



x 2160 (25p), 3840 x 2160 (24p), 1920 x 1080 (60p), 1920 x 1080 (60i), 1920 x 1080 (50p), 1920 x 1080 (50i), 1920 x 1080 (24p), YCbCr 4:2:2 8 bit / RGB 8 bit

## Recording System

**Location Imaging 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 compliant), SDXC memory card (UHS-I compliant), microSD memory card, microSDHC memory card, microSDXC memory card **Memory Card Slot** Multi-slot reader for Memory Stick Duo™/SD memory card

## 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** Auto/ ISO 100 to 102400

## White Balance

**White Balance Modes** Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White / Daylight) / Flash / Underwater / Color Temperature (2500 to 9900K) & color filter (G7 to M7 (57-step), A7 to B7 (29-step)) / Custom **AWB Micro Adjustments** Yes (G7 to M7, 57-step)(A7 to B7, 29-step) **Priority Set in AWB** Yes **Shutter AWB Lock** Yes (Shut. Halfway Down/ Cont. Shooting/ Off) **Bracketing** 3 frames, H/L selectable

## Focusing

**Type** Fast Hybrid AF (phase-detection AF/contrast-detection AF) **Sensor** Exmor CMOS **Focus Point** 425 points (phase-detection AF) / 425 points (contrast-detection AF) **Focus Sensitivity Range** EV-2 to EV 20 (ISO 100 equivalent with F2.0 lens attached) **Focus Modes** AF-A (Automatic AF), AF-S (Single-shot AF), AF-C (Continuous AF), DMF (Direct Manual Focus), Manual Focus **Focus Area** Wide (425 points (phase-detection AF), 425 points (contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L) / Expanded Flexible Spot / Tracking ( 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)), Object Tracking, Eye AF (Right/Left Eye Select), AF micro adjustment with LA-EA2 or LA-EA4 (Sold separately), Predictive control, Focus lock, Swt. V/H AF Area, AF Area Regist., Circ. of Focus Point **AF Illumination** Yes (with built-in LED type) **AF Illumination Range** Approx. 0.3–approx. 3.0 m (with E PZ 16–50 mm F3.5–5.6 OSS lens attached)

## Exposure

**Metering Type** 1200-zone evaluative metering **Metering Sensor** Exmor CMOS **Metering Sensitivity** EV-2 to EV20 at ISO100 equivalent with F2.0 lens attached **Metering Modes** Multi-segment, Center-weighted, Spot, Spot Standard/Large, Entire Screen Avg., Highlight **Exposure Compensation** +/- 5.0 EV (1/3 EV, 1/2 EV steps selectable) **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 Locking** Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto) **Exposure Mode** AUTO (iAuto/Superior Auto), 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)), Sweep Panorama, Scene Selection **ISO Sensitivity** Still images: ISO 100-32000 (ISO numbers up to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit), Movies: ISO 100-32000 equivalent, AUTO (ISO 100-6400, selectable lower limit and upper limit)



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## Shutter

**Type** Electronically controlled, vertical-traverse, focal-plane **Shutter Speed** Still images: 1/4000 to 30 sec, Bulb, Movies: 1/4000 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** 1/60 Sec **Silent Shooting** Yes

## Viewfinder

**Type** 1.0 cm (0.39 type) electronic colour viewfinder **Dots** 2,359,296 **Brightness Control** Auto/Manual (5 steps between -2 and +2) **Colour Temperature Control** Manual – 5 Steps **Field Coverage** 100% **Magnification** Approx. 1.07x (35 mm camera equivalent: Approx. 0.70x) with 50 mm lens at infinity, -1m-1 **Diopter Adjustment** -4.0- +3.0 m-1 **Display** Graphic Display, Display All Info, No Display Info, Digital Level Gauge, Histogram

## LCD Display

**Monitor Type** 2.95 in (3.0-type) wide type TFT **Touch Panel** Yes **Tilt** Up by approx. 180 degrees, Down by approx. 74 degrees