



Clifton Cameras Product Specification

FUJIFILM X-H2S

Model name: FUJIFILM X-H2S

Lens Mount: FUJIFILM X mount

Image Sensor: 23.5mm x 15.6mm (APS-C) X-Trans CMOS 5 HS with Primary Colour Filter

Number of effective pixels: 26.16 millions pixels

Sensor Cleaning System: Ultra Sonic Vibration

Image Processing Engine: X-Processor 5

Storage media: SD Card (-2GB)

SDHC Card (-32GB)

SDXC Card (-2TB)

UHS-I

UHS-II

Video Speed Class V90

CFexpress Type B Card (-2TB)

File format of still image: DCF – Compliant with Design rule for Camera File System (DCF2.0)

JPEG – Exif Ver.2.32

HEIF – 4:2:2 10bit

RAW – 14bit RAW (RAF original format)

TIFF – 8bit / 16bit RGB (In-camera Raw Conversion Only)

Number of recorded pixels (L): 3:2 – 6240 x 4160

16:9 – 6240 x 3512

1:1 – 4160 x 4160

Number of recorded pixels (M): 3:2 – 4416 x 2944

16:9 – 4416 x 2488

1:1 – 2944 x 2944

Number of recorded pixels (S): 3:2 – 3120 x 2080

16:9 – 3120 x 1760

1:1 – 2080 x 2080



Panorama (L): Vertical – 9600 x 2160

Horizontal – 9600 x 1440

Panorama (M): Vertical – 6400 x 2160

Horizontal – 6400 x 1440

Sensitivity (Still Image): Standard Output – AUTO1, AUTO2, AUTO3, ISO160~12800 (1/3 step)

Sensitivity (Still Image): Extended Output – ISO80, ISO100, ISO125, ISO25600, ISO51200

Sensitivity (Movie): Standard Output – AUTO, ISO160~12800 (1/3 step)

Sensitivity (Movie): Extended Output – ISO25600

Exposure Control: TTL 256-Zone Metering, Multi, Spot, Average, Center-Weighted

Exposure Mode: P (Program AE), A (Aperture Priority AE), S (Shutter Speed Priority AE), M (Manual Exposure)

Exposure Compensation: Still – -5.0EV~+5.0EV 1/3EV step

Movie – -2.0EV~+2.0EV 1/3EV step

Image Stabilizer: Mechanism – Image sensor shift mechanism with 5-axis compensation

Image Stabilizer: Compensation Effect – 7.0 stops *based on CIPA standard, *Pitch/Yaw shake only, * With XF35mm F1.4 R Lens Mounted

Image Stabilizer: Digital Image Stabilization – Yes (movie mode only)

Image Stabilizer: IS MODE BOOST – Yes (movie mode only)

Shutter type: Focal Plane Shutter

Shutter Speed: Mechanical Shutter

P Mode – 4sec. to 1/8000sec.

A Mode – 30sec. to 1/8000sec.

S/M Mode – 15min. to 1/8000sec.

Bulb – up to 60min.

Shutter Speed: Electronic Shutter

P Mode – 4sec. to 1/32000sec.

A Mode – 30sec. to 1/32000sec.

S/M Mode – 15min. to 1/32000sec.

Bulb – 1sec. Fixed.



Shutter Speed: Electronic front curtain Shutter

- P Mode – 4sec. to 1/8000sec.
- A Mode – 30sec. to 1/8000sec.
- S/M Mode – 15min. to 1/8000sec.
- Bulb – up to 60min.

Shutter Speed: Mechanical Shutter + Electronic Shutter

- P Mode – 4sec. to 1/32000sec.
- A Mode – 30sec. to 1/32000sec.
- S/M Mode – 15min. to 1/32000sec.
- Bulb – up to 60min.

*Mechanical shutter works until 1/8000sec.

Shutter Speed: E-front + Mechanical shutter (GFX: Electronic Front Curtain Shutter)

- P Mode – 4sec. to 1/8000sec.
- A Mode – 30sec. to 1/8000sec.
- S/M Mode – 15min. to 1/8000sec.
- Bulb – up to 60min.

*Electronic front curtain shutter works until 1/2000sec.

Shutter Speed: E-front + Mechanical shutter + Electronic shutter (GFX: E-Front + Electronic Shutter)

- P Mode – 4sec. to 1/32000sec.
- A Mode – 30sec. to 1/32000sec.
- S/M Mode – 15min. to 1/32000sec.
- Bulb – up to 60min.

*Electronic front curtain shutter works until 1/2000sec, Mechanical shutter works until 1/8000sec.

Shutter Speed: Movie

- 6.2K – 1/8000sec. to 1/24 sec.
- DCI4K/4K – 1/8000sec. to 1/4 sec.
- FHD – 1/8000sec. to 1/4 sec.

*Cannot choose slower shutter speed than framerate for some settings.

Shutter Speed: Synchronized shutter speed for flash

- Mechanical Shutter – 1/250sec. or slower
- Electronic Shutter – 1/125sec. or slower



Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 40fps
- JPEG – 184 frames
- Compressed RAW – 175 frames
- Lossless compressed RAW – 170 frames
- Uncompressed RAW – 140 frames

Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 30fps
- JPEG – 1000+ frames
- Compressed RAW – 270 frames
- Lossless compressed RAW – 250 frames
- Uncompressed RAW – 180 frames

Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 20fps
- JPEG – 1000+ frames
- Compressed RAW – 1000+ frames
- Lossless compressed RAW – 1000+ frames
- Uncompressed RAW – 800 frames

Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 20fps
- JPEG – 1000+ frames
- Compressed RAW – 1000+ frames
- Lossless compressed RAW – 1000+ frames
- Uncompressed RAW – 800 frames

Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 15fps
- JPEG – 1000+ frames
- Compressed RAW – 1000+ frames
- Lossless compressed RAW – 1000+ frames
- Uncompressed RAW – 1000 frames



Continuous Shooting: CH No. of recordable frames

- Electronic Shutter – Approx. 10fps
- JPEG – 1000+ frames
- Compressed RAW – 1000+ frames
- Lossless compressed RAW – 1000+ frames
- Uncompressed RAW – 1000+ frames

Continuous Shooting: CL No. of recordable frames

- Electronic Shutter – Approx. 0.8fps
- JPEG – 1000+ frames
- Compressed RAW – 1000+ frames
- Lossless compressed RAW – 1000+ frames
- Uncompressed RAW – 1000+ frames

Continuous Shooting: Pre-shot. No. of recordable frames

- Electronic Shutter – Approx. 40fps
- While half-press – 40 frames
- After full press – 110 frames
- Total – 150 frames

Continuous Shooting: Pre-shot. No. of recordable frames

- Electronic Shutter – Approx. 30fps
- While half-press – 30 frames
- After full press – 1000+ frames

Continuous Shooting: Pre-shot. No. of recordable frames

- Electronic Shutter – Approx. 20fps
- While half-press – 20 frames
- After full press – 1000+ frames

Continuous Shooting: Pre-shot. No. of recordable frames

- Electronic Shutter – Approx. 15fps
- While half-press – 15 frames
- After full press – 1000+ frames

*No. of recordable frames are calculated based on CFexpress Type B card in a cold start

*Speed of continuous shooting depends on shooting environment and shooting frames

*Speed of continuous shooting depends on shooting environment and shooting frames



Drive Mode AE Bracketing: 2 Frames, 3 Frames, 5 Frames, 7Frames, 9 Frames * by 1/3EV step, up to ± 3 EV steps

Drive Mode Film simulation bracketing: Any 3 types of film simulation selectable

Drive Mode Dynamic Range Bracketing: 100%, 200%, 400%

Drive Mode ISO sensitivity Bracketing: $\pm 1/3$ EV, $\pm 2/3$ EV, ± 1 EV

Drive Mode White Balance Bracketing: ± 1 , ± 2 , ± 3

Drive Mode Focus Bracketing: Auto, Manual

Drive Mode Multiple Exposure: Yes (Max. 9 frames), Additive, Average, Bright, Dark

Drive Mode HDR Mode: Auto, 200%, 400%, 800%, 800%+

Drive Mode Advance filter: Toy camera, Miniature, Pop Colour, High-key, Low-key, Dynamic tone, Soft focus, Partial Colour (Red/ Orange/ Yellow/ Green/ Blue/ Purple)

Focus Mode: Single AF, Continuous AF, MF

Focus Type: Intelligent Hybrid AF (TTL contrast AF/ TTL phase-detection AF)

Focus Low-light Performance: Contrast - -4.0EV, XF50mmF1.0 attached

Focus Low-light Performance: Phase Detection -7.0EV, XF50MMF1.0 attached

Focus AF frame selection: Single Point AF – 13x9 / 25x17 (Changeable size of AF frame)

Zone AF – 3x3 / 5x5 / 7x7 from 117 areas on 13x9 grid

Wide/Tracking AF – Yes (Af-S: Wide/ AF-C: Tracking)

All - Yes

Focus Face/eye detection: Yes

Focus Subject detection: Yes (Animal/Bird/Automobile/Motorcycle Bike/Airplane/Train)

Flash EF-X8: Guide Number - approx. 11 (ISO200 · m) / approx. 8 (ISO100 · m)

Flash EF-X8: Sync. Mode – 1st Curtain, 2nd Curtain

Flash EF-X8: Flash Mode – TTL (TTL AUTO/ STANDARD / SLOW SYNC.), Manual, Commander, Off

Shoe mount flash Sync. Mode – 1st Curtain, 2nd Curtain, AUTO FP (HSS)

Shoe mount flash: Flash Mode – TTL (TTL AUTO/ STANDARD/ SLOW SYNC.), Manual, Multi * When EF-X500 is set, Off

Synchronized terminal: Sync. Mode – 1st Curtain, 2nd Curtain



Synchronized terminal: Flash Mode – Manual

Hot Shoe: Yes (Dedicated TTL Flash compatible)

Viewfinder EVF: 0.5 inch OLED Colour Viewfinder Apart

Coverage of Viewing Area vs. Capturing Area – Approx. 100%

Eyepoint - Approx. 24mm (from the Rear End of the Camera's Eyepiece)

Diopter Adjustment - '-5~+3m-1

Magnification - 0.80x with 50mm Lens (35mm Equivalent) at infinity and Diopter set to -1.0m-1

Diagonal Angle of View - approx. 40° (Horizontal angle of view: approx. 32°)

LCD monitor: 3.0 inch vari-angle Touch Screen Colour LCD Monitor

LCD monitor Aspect Ratio: 3:2

LCD monitor Dots: Approx. 1.62 million dots

Touch Screen Mode: Shooting Mode

Shooting, AF, Focus Area, OFF, Double Tap Setting (ON/OFF), Touch Function Setting (ON/OFF), EVF Touch Screen Area Setting.

Touch Screen Playback Mode: Swipe, Pinch-in/ Pinch-Out, Double-tap, Drag

Sub LCD monitor: 1.28 inch Monochrome LCD Monitor

Sub LCD monitor Aspect Ratio: 1:1

Sub LCD monitor Dots: 128x128-dot

Movie recording, File Format: Mov

Apple ProRes 422 HQ, Linear PCM (Stereo sound 24bit / 48KHz sampling)

Apple ProRes 422, Linear PCM (Stereo sound 24bit / 48KHz sampling)

Apple ProRes 422 LT, Linear PCM (Stereo sound 24bit / 48KHz sampling)

HEVC/H.265, Linear PCM (Stereo sound 24bit / 48KHz sampling)

MPEG-4 AVC/H.264, Linear PCM (Stereo sound 24bit / 48KHz sampling)

Movie recording, File Format: MP4

MPEG-4 AVC/H.264, AAC

Movie recording, Movie compression: All Intra, Long GOP

Movie recording, 6.2K (3:2): File Size – 6240 x 4160

Movie recording, 6.2K (3:2): Frame rate – 29.97p, 25p, 24p, 23.98p

Movie recording, 6.2K (3:2): Bitrate – 720Mbps, 360Mbps, 200Mbps, 100Mbps, 50Mbps



Movie recording, DCI4K (17:9): File Size – 4096 x 2160

Movie recording, DCI4K (17:9): Frame rate 59.94p, 50p, 29.97p, 25p, 24p, 23.98p

Movie recording, DCI4K (17:9): Bitrate 720Mbps, 360Mbps, 200Mbps, 100Mbps, 50Mbps

Movie recording, 4K (16:9) File Size 3840 x 2160

Movie recording, 4K (16:9) Frame rate 59.94p, 50p, 29.97p, 25p, 24p, 23.98p

Movie recording, 4K (16:9) Bitrate 720Mbps, 360Mbps, 200Mbps, 100Mbps, 50Mbps

Movie recording, Full HD (17:9) File Size 2048 x 1080

Movie recording, Full HD (17:9) Frame rate 59.94p, 50p, 29.97p, 25p, 24p, 23.98p

Movie recording, Full HD (17:9) Bitrate 720Mbps, 360Mbps, 200Mbps, 100Mbps, 50Mbps

Movie recording, Full HD (16:9) File Size 1920 x 1080

Movie recording, Full HD (16:9) Frame rate 59.94p, 50p, 29.97p, 25p, 24p, 23.98p

Movie recording, Full HD (16:9) Bitrate 720Mbps, 360Mbps, 200Mbps, 100Mbps, 50Mbps

Movie recording, DCI4K (17:9) High Speed Rec. File Size 4096 x 2160

Movie recording, DCI4K (17:9) High Speed Rec. Frame rate 120p, 100p

Movie recording, DCI4K (17:9) High Speed Rec Bitrate 720Mbps (recording), 360Mbps (recording), 200Mbps (recording)

Movie recording, 4K (16:9) High Speed Rec. File Size 3840 x 2160

Movie recording, 4K (16:9) High Speed Rec. Frame rate 120p, 100p

Movie recording, 4K (16:9) High Speed Rec Bitrate 720Mbps (recording), 360Mbps (recording), 200Mbps (recording)

Movie recording, Full HD (17:9) High Speed Rec. File Size 2048 x 1080

Movie recording, Full HD (17:9) High Speed Rec. Frame rate 120p, 100p

Movie recording, Full HD (17:9) High Speed Rec Bitrate 720Mbps (recording), 360Mbps (recording), 200Mbps (recording)

Movie recording, Full HD (16:9) High Speed Rec. File Size 1920 x 1080

Movie recording, Full HD (16:9) High Speed Rec. Frame rate 240p, 200p, 120p, 100p

Movie recording, Full HD (16:9) High Speed Rec Bitrate 720Mbps (recording), 360Mbps (recording), 200Mbps (recording)

*For recording movies, use a CFexpress Type B card or SD memory card with UHS Speed Class 3 or higher.



*For recording movies in 360Mbps, use a CFexpress Type B card or SD memory card with Video Speed Class 60 or higher.

*For recording movies in 720Mbps, use a CFexpress Type B card or SD memory card with Video Speed Class 90 or higher.

*Selectable bitrate will be changed depends on the setting.

*Apple ProRes codec can be only recorded to CFexpress Type B card

*Bitrate for Apple ProRes codec is not selectable.

*Recording time can become short depending on the temperature and/or shooting conditions

Film Simulation mode: 19 modes, PROVIA/Standard, Velvia/ Vivid, ASTIA/Soft, Classic Chrome, PRO Neg. HI, PRO Neg. Std, Classic Neg. ETERNA/ Cinema, ETERNA BLEACH BYPASS, ACROS, ACROS + Ye Filter, ACROS + R Filter, ACROS + G Filter, Black & White, Black & White + Ye Filter, Black & White + R Filter, Black & White + G Filter, Sepia

Monochromatic Colour: Yes

Grain Effect Roughness: STRONG, WEAK, OFF

Grain Effect Size: Large, Small

Colour Chrome Effect: STRONG, WEAK, OFF

Colour Chrome Blue: STRONG, WEAK, OFF

Dynamic range setting, Still: AUTO/ 100%/ 200%/ 400%

Dynamic range setting, Still: ISO restriction - DR100%: No limit, DR200%: ISO320 or more, DR400%: ISO640 or more

Dynamic range setting, Movie: 100%/ 200%/ 400%

Dynamic range setting, Movie: ISO restriction - DR100%: No limit, DR200%: ISO320 or more, DR400%: ISO640 or more

White balance: Auto – White Priority, Auto, Ambience Priority

White balance: Custom – Custom1-3

White balance: Colour temperature selection – 2500K ~10000K

White balance: Preset – Daylight, Shade, Fluorescent Light -1, Fluorescent Light -2, Fluorescent Light -3, Incandescent Light, Underwater

Clarity Setting: ±5 steps

Self-timer: 10sec, 2sec

Interval timer shooting: Yes (Setting : Interval, Number of shots, Starting time, Interval timer shooting exposure smoothing)



Wireless Transmitter:

Standard: IEEE802.11a/b/g/n/ac (standard wireless protocol)

Encryption: WEP/WPA/WPA2 mixed mode

Access mode: Infrastructure

Bluetooth:

Standard: Bluetooth Ver. 4.2 (Bluetooth low energy)

Operating frequency (Center frequency): 2402~2480MHz

Terminal:

Digital Interface: USB Type-C (USB3.2 Gen2x1)

HDMI output: HDMI connector (Type A)

Others:

ø3.5mm, stereo mini connector (Microphone)

ø3.5mm, stereo mini connector (Headphone)

ø2.5mm, Remote Release Connector

Synchronized terminal

Hot Shoe

Power Supply: NP-W235 LI-ion battery (included)

Power Supply (Battery Life for still images):

Economy Mode – Approx. 720 Frames

Normal Mode – Approx. 580 Frames

*When XF35mm F1.4 R is set

Power Supply (Actual battery life of movie capture):

6.2K – Approx. 90min. (29.97p)

4K – Approx. 70min. (59.94p), Approx. 60min (120p)

Full HD – Approx. 95min. (59.94p)

*Face detection is set to OFF

Power Supply (Continuance battery life of movie capture):

6.2K – Approx. 120min. (29.97p)

4K – Approx. 105min. (59.94p), Approx. 60min (120p)

Full HD – Approx. 165min. (59.94p)

*Face detection is set to OFF

*the Approximate number of frames or movie recording time that can be taken with a fully charged based on CIPA Standard.

Dimensions: Width – 136.3mm, Height- 92.9mm, Depth (minimum Depth) – 84.6mm (42.8mm)

Weight: Including Battery and memory card – Approx. 660g



Weight: Excluding Battery and memory card – Approx. 579g

Operation Environment: Operating Temperature – -10°C~+40°C

Operation Environment: Operating Humidity – 10% - 80% (no condensation)

Starting up Period: Approx, 0.49sec.

Accessories included: Li-ion battery NP-W235S, AC power adapter AC-5VJ, Plug adapter, USB cable, Shoulder Strap, Body cap, Hot Shoe cover, File transmitter/ vertical battery grip connector cover, Memory card slot cover, Sync terminal cover, Cooling fan connector cover, Cable protector, Owner's manual