Clifton Cameras Product Specification

Fujifilm X-S20

Specifications

Model name:	FUJIFILM X-S20
Lens Mount:	FUJIFILM X mount
Image sensor: filter	23.5mm x 15.6mm (APS-C) X-Trans CMOS 4 with primary color
Number of effective pixels:	26.1 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

*Please see the Fujifilm website (https://fujifilm-x.com/support/compatibility/cameras/) to check memory card compatibility.

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)

*Exif 2.32 is a digital camera file format that contains a variety of shooting information for optimal printing

Number of recorded pixels:	[L]	4:3	
		3:2	6240 x 4160
		16:9	6240 x 3512
		1:1	4160 x 4160

		65:24			
		5:4			
		7:6			
	[M]	4:3			
		3:2	4416 x 2944		
		16:9	4416 x 2488		
		1:1	2944 x 2944		
		65:24			
		5:4			
		7:6			
	[S]	4:3			
		3:2	3120 x 2080		
		16:9	3120 x 1760		
		1:1	2080 x 2080		
		65:24			
		5:4			
		7:6			
Panorama:	[L]	vertical	9600 x 2160		
		Horizontal	9600 x 1440		
	[M]	Vertical	6400 x 2160		
		Horizontal	6400 x 1440		
Sensitivity:	Still Image	Standard Output	AUTO1		
	AUTO2				
	AUTO3				
	ISO160〜12800 (1/3 step)				
Extended Output					
	ISO80					
	ISO100					
	ISO125					

ISO25600

ISO51200

Movie   Standard Output   AUTO

ISO125〜12800 (1/3 step)

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

Compensation Effect   7.0 stops

*based on CIPA standard

*Pitch/yaw shake only

*With XF35mmF1.4 R lens mounted

Digital Image Stabilization   Yes (movie mode only)

IS MODE BOOST   Yes (movie mode only)

Shutter type: Focal Plane Shutter

Shutter speed: Mechanical shutter P mode   30sec. to 1/4000sec.

A mode   30sec. to 1/4000sec.

S/M mode   15min. to 1/4000sec.

Bulb   up to 60min.

Electronic shutter   P mode   30sec. to 1/32000sec.

A mode   30sec. to 1/32000sec.

S/M mode   15min. to 1/32000sec.

Bulb   1sec. Fixed

Electronic front curtain shutter P mode

A mode

S/M mode

Bulb

Mechanical + Electronic shutter   P mode   30sec. to 1/32000sec.

A mode   30sec. to 1/32000sec.

S/M mode   15min. to 1/32000sec.

Bulb   up to 60min.

*Mechanical shutter works until 1/4000sec.

E-front + Mechanical shutter   P mode

(GFX: Electronic Front Curtain Shutter)   A mode

S/M mode

Bulb

E-front + Mechanical + Electronic shutter   P mode

(GFX: E-Front + Electronic Shutter)   A mode

S/M mode

Bulb

Movie   8K

6.2K   1/4000sec. to 1/24 sec.

DCI4K/4K 1/4000sec. to 1/24 sec.

FHD   1/4000sec. to 1/24 sec.

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

Synchronized shutter speed for flash   Mechanical shutter 1/180sec. or slower

Electronic shutter

Continuous shooting: CH Electronic shutter Approx. 30fps (1.25x Crop)

No. of recordable frames JPEG 407frames

Compressed RAW 88frames

Lossless compressed RAW 62frames

Uncompressed RAW 28frames

Compressed RAW + JPEG 41frames

Lossless compressed RAW + JPEG 36frames

Uncompressed RAW + JPEG 28frames

CH Electronic shutter Approx. 20fps (1.25x Crop)

No. of recordable frames JPEG 1000+ frames

Compressed RAW 104frames

Lossless compressed RAW 72frames

Uncompressed RAW 30frames

Compressed RAW + JPEG 66frames

Lossless compressed RAW + JPEG 53frames

Uncompressed RAW + JPEG 30frames

CH Electronic shutter Approx. 10fps (1.25x Crop)

No. of recordable frames JPEG 1000+ frames

Compressed RAW 1000+ frames

Lossless compressed RAW 215frames

Uncompressed RAW 40frames

Compressed RAW + JPEG 163frames

Lossless compressed RAW + JPEG 102frames

Uncompressed RAW + JPEG 40frames

Continuous shooting: CH Electronic shutter Approx. 20fps

No. of recordable frames JPEG 256frames

Compressed RAW 79frames

Lossless compressed RAW 44frames

Uncompressed RAW 28frames

Compressed RAW+JPEG   68frames

Lossless compressed RAW+JPEG   33frames

Uncompressed RAW+JPEG   28frames

CH   Electronic shutter   Approx. 10fps

No. of recordable frames   JPEG   1000+ frames

Compressed RAW   341frames

Lossless compressed RAW   82frames

Uncompressed RAW   32frames

Compressed RAW+JPEG   89frames

Lossless compressed RAW+JPEG   51frames

Uncompressed RAW+JPEG   32frames

CH   Electronic shutter   Approx. 8fps

No. of recordable frames   JPEG   1000+ frames

Compressed RAW   1000+ frames

Lossless compressed RAW   90frames

Uncompressed RAW   35frames

Compressed RAW+JPEG   94frames

Lossless compressed RAW+JPEG   57frames

Uncompressed RAW+JPEG   33frames

CH   Electronic shutter

No. of recordable frames   JPEG

Compressed RAW

Lossless compressed RAW

Uncompressed RAW

Compressed RAW+JPEG

Lossless compressed RAW+JPEG

Uncompressed RAW+JPEG

CH   Mechanical shutter Approx. 8fps

No. of recordable frames   JPEG   1000+ frames

Compressed RAW   1000+ frames

Lossless compressed RAW   90frames

Uncompressed RAW   35frames

Compressed RAW+JPEG   94frames

Lossless compressed RAW+JPEG   57frames

Uncompressed RAW+JPEG   33frames

CH   Mechanical shutter

No. of recordable frames   JPEG

        Compressed RAW

        Lossless compressed RAW

        Uncompressed RAW

        Compressed RAW+JPEG

        Lossless compressed RAW+JPEG

        Uncompressed RAW+JPEG

CL   Mechanical shutter

No. of recordable frames   JPEG

        Compressed RAW

        Lossless compressed RAW

        Uncompressed RAW

        Compressed RAW+JPEG

        Lossless compressed RAW+JPEG

        Uncompressed RAW+JPEG

CL   Approx. 5.0fps

No. of recordable frames   JPEG   1000+ frames

        Compressed RAW   1000+ frames

        Lossless compressed RAW   1000+ frames

        Uncompressed RAW   49frames

CL   Approx. 4.0fps

No. of recordable frames   JPEG   1000+ frames

Compressed RAW   1000+ frames

Lossless compressed RAW   1000+ frames

Uncompressed RAW   67 frames

CL   Approx. 3.0fps

No. of recordable frames   JPEG   1000+ frames

Compressed RAW   1000+ frames

Lossless compressed RAW   1000+ frames

Uncompressed RAW   1000+ frames

Pre-shot Electronic shutter, 1.25 x Crop Approx. 30fps

No. of recordable frames   While half press   30frames

After full press   75frames

Total   105frames

Pre-shot Electronic shutter, 1.25 x Crop Approx. 20fps

No. of recordable frames   While half press   20frames

After full press   576frames

Total   596frames

Pre-shot Electronic shutter, 1.25 x Crop Approx. 10fps

No. of recordable frames   While half press   10frames

After full press   1000+ frames

Total   1000+ frames

Pre-shot Electronic shutter   Approx. 20fps

No. of recordable frames   While half press   20frames

After full press   998frames

Total   1018frames

Pre-shot Electronic shutter   Approx. 10fps

No. of recordable frames   While half press   10frames

After full press   1000+ frames

Total   1000+ frames

Pre-shot Electronic shutter   Approx. 8fps

No. of recordable frames   While half press   8frames

After full press   1000+ frames

Total   1000+ frames

Pre-shot   Electronic shutter

No. of recordable frames   While half press

After full press

Total

*Recordable frames depends on recording media

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

Drive Mode: AE Bracketing   2 frames

3 frames

5 frames

7 frames

9 frames

*by 1/3EV step, up to ±3EV steps

Filmsimulation bracketing   Any 3 types of film simulation selectable

Dynamic Range Bracketing   100%

200%

400%

ISO sensitivity Bracketing   ±1/3EV

±2/3EV

±1EV

White Balance Bracketing   ±1

±2

±3

Focus Bracketing   AUTO

MANUAL

Multiple Exposure	Yes (Max. 9 frames)
	Additive
	Average
	Bright
	Dark
HDR Mode	AUTO
	200%
	400%
	800%
	800% +
Advanced filter	Toy camera
	Miniature
	Pop color
	High-key
	Low-key
	Dynamic tone
	Soft focus
	Partial color (Red / Orange / Yellow / Green / Blue / Purple)

Pixel Shift Multi Shot

Focus:	Mode	Single AF
		Continuous AF
		MF
	Type	Intelligent Hybrid AF (TTL contrast AF / TTL phase detection AF)
	Low-light Performance	Contrast -4.0EV
		XF50mmF1.0 attached
	Phase Detection	-7.0EV
		XF50mmF1.0 attached
	AF frame selection	Single point AF 13x9 / 25x17 (Changeable size of AF frame)

Zone AF   3x3 / 5x5 / 7x7 from 117 areas on 13×9 grid

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

All   Yes

Face/eye detection   Yes

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

Flash: EF-X8   Guide Number

Sync. Mode

Flash Mode

Shoe mount flash   Sync. Mode   1st Curtain

2nd Curtain

AUTO FP (HSS)

Flash Mode   TTL (TTL AUTO / STANDARD / SLOW SYNC.)

MANUAL

MULTI *When EF-X500 is set

OFF

Synchronized terminal   Sync. Mode   1st Curtain

2nd Curtain

Flash Mode   MANUAL

Hot shoe: Yes (Dedicated TTL Flash compatible)

Viewfinder (Hybrid viewfinder):   OVF

Coverage of Frame Area v.s. Capturing Area

Magnification

Viewfinder: EVF   0.39 inch OLED Color Viewfinder

Approx. 2.36 million dots

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

Eyepoint Approx. 17.5mm (from the Rear End of the Camera's Eyepiece)

Diopter Adjustment -4～+2m-1

Magnification   0.62x with 50mm Lens (35mm Equivalent) at infinity and Diopter set to -1.0m-1

Diagonal Angle of View   approx. 31° (Horizontal angle of view: approx. 26°)

Built-In Eye Sensor

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

Aspect Ratio   3:2

Dots   Approx. 1.84 million dots

Touch Screen Mode: Shooting Mode   Shooting

AF

Focus Area

OFF

Double Tap Setting (ON/OFF)

Touch Function Setting (ON/OFF)

Touch Zoom (ON/OFF)

EVF Touch Screen Area Setting

Playback Mode   Swipe

Pinch-in / Pinch-out

Double-tap

Drag

Sub LCD monitor:

Aspect Ratio

Dots

Movie recording: File format   MOV

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

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

MP4   MPEG-4 AVC/H.264, AAC

Movie compression   All Intra

Long GOP

8K(16:9)   File size

Frame rate

Bitrate

6.2K(3:2) File size   6240 x 4160

Frame rate   29.97p

25p

24p

23.98p

Bitrate

360Mbps

200Mbps

100Mbps

50Mbps

6.2K(16:9)   File size

Frame rate

Bitrate

DCI4K HQ(17:9)   File size

    Frame rate

    Bitrate

4K HQ(16:9)   File size

    Frame rate

    Bitrate

DCI4K(17:9)   File size   4096 x 2160

    Frame rate   59.94p

        50p

        29.97p

        25p

        24p

        23.98p

Bitrate

360Mbps

200Mbps

100Mbps

50Mbps

4K(16:9) File size 3840 x 2160

Frame rate   59.94p

50p

29.97p

25p

24p

23.98p

Bitrate

360Mbps

200Mbps

100Mbps

50Mbps

Full HD(17:9)   File size 2048 x 1080

Frame rate   59.94p

50p

29.97p

25p

24p

23.98p

Bitrate

360Mbps

200Mbps

100Mbps

50Mbps

Full HD(16:9)   File size   1920 x 1080

    Frame rate   59.94p

        50p

        29.97p

        25p

        24p

        23.98p

    Bitrate

        360Mbps

        200Mbps

        100Mbps

        50Mbps

Full HD LP(17:9)   File size   2048 x 1080 (1.29x Crop)

    Frame rate   59.94p

        50p

    Bitrate

        360Mbps

        200Mbps

        100Mbps

        50Mbps

Full HDLP(16:9)   File size   1920 x 1080 (1.29x Crop)

    Frame rate   59.94p

        50p

Bitrate

360Mbps

200Mbps

100Mbps

50Mbps

Recording time

DCI4K(17:9) High speed rec. File size

Frame rate

Bitrate

4K(16:9) High speed rec.   File size

Frame rate

Bitrate

Full HD(17:9) High speed rec. File size   2048 x 1080

Frame rate   240p

200p

120p

100p

Bitrate

360Mbps (recording)

200Mbps (recording)

Full HD(16:9) High speed rec. File size   1920 x 1080

Frame rate   240p

200p

120p

100p

Bitrate

360Mbps (recording)

200Mbps (recording)

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

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

*Selectable bitrate will be changed depends on the setting.

*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.

Nostalgic 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 Color:		Yes
Grain Effect:	Roughness	STRONG, WEAK, OFF
	Size	LARGE, SMALL
Color Chrome Effect:		STRONG, WEAK, OFF
Color chrome Blue:		STRONG, WEAK, OFF
Smooth Skin Effect:		
Dynamic range setting:	Still	AUTO / 100% / 200% / 400%
	ISO restriction	DR100%: No limit、DR200%: ISO320 or more、DR400%: ISO640 or more
	Movie	100% / 200% / 400%
	ISO restriction	DR100%: No limit、DR200%: ISO320 or more、DR400%: ISO640 or more
White balance:	Auto	White Priority
		Auto
		Ambience Priority
	Custom	Custom1 - 3
	Color temperature selection	2500K～10000K
	Preset	Daylight
		Shade
		Fluorescent Light-1
		Fluorescent Light-2

Fluorescent Light-3

Incandescent Light

Underwater

Clarity setting:		±5 steps
Self-timer Still:	10sec.	
	2sec.	
Movie	10sec.	
	5sec.	
	3sec.	

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

Wireless transmitter Standard:	IEEE802.11a/b/g/n/ac (standard wireless protocol)	
Encryption	WPA/WPA2 mixed mode, WPA3	
Access mode	Infrastructure	
Bluetooth®: Standartd	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 Micro connector (Type D)	
Others	ø3.5mm, stereo mini connector (Microphone)	
	ø3.5mm, stereo mini connector (Headphone)	

Hot shoe

Power supply:	NP-W235 Li-ion battery (included)	
Battery life for still images	Economy Mode	Approx. 800 frames
Normal Mode	Approx. 750 frames	

*When XF35mmF1.4 R is set

Actual battery life of movie capture   8K

      6.2K   Approx. 85min. (29.97p)

      4K   Approx. 80min. (59.94p)

      Full HD   Approx. 95min. (59.94p)、Approx. 95min. (120P)

      *Face detection is set to OFF

Continuance battery life of movie capture   8K

      6.2K   Approx. 120min. (29.97p)

      4K   Approx. 110min. (59.94p)

      Full HD   Approx. 150min. (59.94p)

      *Face detection is set to OFF

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

Dimensions: Width   127.7mm

      Height   85.1mm

      Depth   65.4mm

      (Minimum Depth)   (32.9mm)

Weight: including battery and memory card   約 491g

      excluding battery and memory card   約 410g

Operation Environment: Operating Temperature   0℃〜+40℃

      Operating Humidity   10% - 80% (no condensation)

Accessories included:

      Li-ion battery NP-W235; AC power adapter AC-5VJ; Plug adapter; USB cable; Shoulder strap; Body cap; Sync terminal cover; Owner's manual