

Clifton Cameras Product Specification

Fujifilm GFX 100S Medium Format Camera

General

Model name	FUJIFILM GFX100S
Lens Mount	FUJIFILM G mount
Image sensor	43.8mm×32.9mm Bayer array with primary color filter
Number of effective pixels	102 million pixels
Sensor Cleaning System	Ultra Sonic Vibration
Image Processing Engine	X-Processor 4
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.

Imaging

File format of still image	DCF	Compliant with Design rule for Camera File system (DCF2.0)
	JPEG	Exif Ver.2.3.2
	RAW	16bit / 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

Pixels

[L]	4:3	11648 x 8736
	3:2	11648 x 7768
	16:9	11648 x 6552
	1:1	8736 x 8736

	65:24	11648 x 4304
	5:4	10928 x 8736
	7:6	10192 x 8736
[M]	4:3	8256 x 6192
	3:2	8256 x 5504
	16:9	8256 x 4640
	1:1	6192 x 6192
	65:24	8256 x 3048
	5:4	7744 x 6192
	7:6	7232 x 6192
[S]	4:3	4000 x 3000
	3:2	4000 x 2664
	16:9	4000 x 2248
	1:1	2992 x 2992
	65:24	4000 x 1480
	5:4	3744 x 3000
	7:6	3504 x 3000

Sensitivity

Still Image	Standard Output	AUTO1
		AUTO2
		AUTO3
		ISO100~12800 (1/3 step)
	Extended Output	ISO50
		ISO25600
		ISO51200
	ISO102400	
Movie	Standard Output	AUTO
		ISO200~12800 (1/3 step)
	Extended Output	ISO25600

Exposure

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 Stabiliser

Mechanism	Image sensor shift mechanism with 5-axis compensation
Compensation Effect	6.0 stops
	*based on CIPA standard
	*Pitch/yaw shake only
	*With GF63mmF2.8 R WR lens mounted
Digital Image Stabilization	Yes (movie mode only)
IS MODE BOOST	Yes (movie mode only)

Focal Plane Shutter

Mechanical shutter	P mode	4sec. to 1/4000sec.
	A mode	30sec. to 1/4000sec.
	S/M mode	60min. to 1/4000sec.
	Bulb	up to 60min.
Electronic shutter	P mode	4sec. to 1/16000sec.
	A mode	30sec. to 1/16000sec.
	S/M mode	60min. to 1/16000sec.
	Bulb	up to 60min.

		*The Electronic Shutter may not be suitable for fast-moving objects or handheld shooting. Flash can not be used.
Mechanical + Electronic shutter	P mode	4sec. to 1/16000sec.
	A mode	30sec. to 1/16000sec.
	S/M mode	60min. to 1/16000sec.
	Bulb	up to 60min.
		*The Electronic Shutter may not be suitable for fast-moving objects or handheld shooting. Flash can not be used.
E-front + Mechanical shutter	P mode	4sec. to 1/4000sec.
(GFX: Electronic Front Curtain Shutter)	A mode	30sec. to 1/4000sec.
	S/M mode	60min. to 1/4000sec.
	Bulb	up to 60min.
		*Electronic front curtain shutter works until 1/1250sec.
		*When using the electronic front curtain shutter, the continuous shooting supports CL only
E-front + Mechanical + Electronic shutter	P mode	4sec. to 1/16000sec.
(GFX: Electronic Front Curtain Shutter + Electronic Shutter)	A mode	30sec. to 1/16000sec.
	S/M mode	60min. to 1/16000sec.
	Bulb	up to 60min.
		*Electronic front curtain shutter works until 1/1250sec, Mechanical shutter works until 1/4000sec.
		*The Electronic Shutter may not be suitable for fast-moving objects or handheld shooting. Flash can not be used.
		*When using the electronic front curtain shutter, the continuous shooting supports CL only



Movie	DCI4K/4K	1/4000sec. - 1/4sec.
	FHD	1/4000sec. - 1/4sec.
		*Cannot choose slower shutter speed than framerate with LongGOP recording.
Synchronized shutter speed for flash		1/125sec. or slower

Shutter Speeds

Electronic shutter	2.9fps
JPEG	64 frames
Compressed RAW	23 frames
Lossless compressed RAW	18 frames
Uncompressed RAW	15 frames
	5.0fps
JPEG	42 frames
Compressed RAW	16 frames
Lossless compressed RAW	15 frames
Uncompressed RAW	14 frames
	2.0fps
JPEG	Endless
Compressed RAW	45 frames
Lossless compressed RAW	22 frames
Uncompressed RAW	16 frames
	*Electronic Front Curtain Shutter support CL only.
	*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 ± 3 EV steps
Filmsimulation bracketing	Any 3 types of film simulation selectable
Dynamic Range Bracketing	100%
	200%
	400%
ISO sensitivity Bracketing	$\pm 1/3$ EV
	$\pm 2/3$ EV
	± 1 EV
White Balance Bracketing	± 1
	± 2
	± 3
Focus Bracketing	AUTO
	MANUAL
Multiple Exposure	Yes (Max. 9 frames)
	Additive
	Average
	Bright
	Dark
Pixel Shift Multi Shot	Yes

Focus

Mode		Single AF
		Continuous AF
		MF
Type		Intelligent Hybrid AF (TTL contrast AF / TTL phase detection AF)
Low-light Performance	Contrast	-2.5EV
		GF80mmF1.7 attached
	Phase Detection	-5.5EV

		GF80mmF1.7 attached
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
Face/eye detection		Yes

Flash

Sync. Mode	1st Curtain
	2nd Curtain
	AUTO FP (HSS)
When SHOE MOUNT FLASH is set	TTL (TTL AUTO / STANDARD / SLOW SYNC.)
	MANUAL
	MULTI
	OFF
Hot Shoe	Yes (Dedicated TTL Flash Compatible)

EVF

0.5 inch OLED Color Viewfinder	Approx. 3.69 million dots
Coverage of Viewing Area vs. Capturing Area	Approx. 100%
Eyepoint	Approx. 23mm (from the Rear End of the Camera's Eyepiece)
Diopter Adjustment	-4 ~ +2m ⁻¹
Magnification	0.77x with 50mm Lens (35mm Equivalent) at infinity and Diopter set to -1.0m ⁻¹
Diagonal Angle of View	approx. 38° (Horizontal angle of view: approx. 30°)
	Built-In Eye Sensor

LCD Monitor

3.2 inch Tilt-Type(Three Direction) Touch Screen Color LCD Monitor	
Aspect Ratio	4:3
Dots	Approx. 2.36 million dots

Shooting Mode	
	AF
	Focus Area
	OFF
	Double Tap Setting
	Touch Function Setting
	EVF Touch Screen Area Setting
Playback Mode	Swipe
	Pinch-in / Pinch-out
	Double-tap
	Drag
	1.80 inch Monochrome LCD Monitor
Aspect Ratio	4:3
Dots	303x230-dot

Movie Recording

File format	MOV
	MP4
	MPEG-4 AVC/H.264
	HEVC/H.265
Audio AAC	Linear PCM / Stereo sound 24bit / 48KHz sampling

Movie compression		All Intra / Long GOP
		※All Intra can be used with following settings.
		DCI4K/4K 29.97p/25p/24p/23.98p 400Mbps
		Full HD(2048x1080) / Full HD(1920x1080) 59.94p/50p/29.97p/25p/ 24p/23.98p 200Mbps
DCI4K(17:9)	File size	4096x2160
		29.97p
		25p
		24p

		23.98p
	Bitrate	400Mbps
		200Mbps
		100Mbps
	Recording time	Up to Approx. 120min.
4K(16:9)	File size	3840×2160
	Frame rate	
		29.97p
		25p
		24p
		23.98p
	Bitrate	400Mbps
		200Mbps
		100Mbps
	Recording time	Up to Approx. 120min.
Full HD(17:9)	File size	2048×1080
	Frame rate	59.94p
		50p
		29.97p
		25p
		24p
		23.98p
	Bitrate	200Mbps
		100Mbps
		50Mbps
	Recording time	Up to Approx. 120min.
Full HD(16:9)	File size	1920×1080
	Frame rate	59.94p
		50p
		29.97p

		25p
		24p
		23.98p
	Bitrate	200Mbps
		100Mbps
		50Mbps
	Recording time	Up to Approx. 120min.
		*For recording movies, use a SD memory card with UHS Speed Class 3 or higher.
		*For recording movies in 400Mbps, use a SD memory card with Video Speed Class 60 or higher.
		*Recording movies in 400Mbps can be done with DCI4K/4K 29.97p/25p/24p/23.98p.
		*Recording time can become short depending on the temperature and/or shooting conditions

Film Simulation

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 Colour

Grain Effect	Roughness	STRONG, WEAK, OFF
	Size	LARGE, SMALL
Color Chrome Effect		STRONG, WEAK, OFF
Color chrome Blue		STRONG, WEAK, OFF
Smooth Skin Effect		STRONG, WEAK, OFF

Dynamic Range

Still		AUTO / 100% / 200% / 400%
	ISO restriction	DR100%: No limit, DR200%: ISO200 or more, DR400%: ISO400 or more
Movie		100% / 200% / 400%
	ISO restriction	DR100%: No limit, DR200%: ISO400 or more, DR400%: ISO800 or more

White Balance

Auto	White Priority
	Auto
	Ambience Priority
Custom	Custom1 - 3
Color temperature selection	2500K~10000K
Preset	Fine
	Shade
	Fluorescent Light-1
	Fluorescent Light-2

	Fluorescent Light-3
	Incandescent Light
	Underwater

Timers

Self-timer	10sec.
	2sec.
Interval timer shooting	Yes (Setting : Interval, Number of shots, Starting time, Interval timer shooting exposure smoothing)

Connections

Wireless transmitter	Standard	IEEE802.11b/g/n (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 Gen1x1)	
	HDMI output	HDMI Micro connector (Type D)	
	Others		ø3.5mm, stereo mini connector (Microphone)
			ø3.5mm, stereo mini connector (Headphone)
			ø2.5mm, Remote Release Connector
			Hot shoe
		Synchronized terminal	

Power Supply

NP-W235 Li-ion battery (included)		
Battery life for still images		
	Normal Mode	Approx. 460 frames
		*When GF63mmF2.8 R WR is set
Actual battery life of movie capture	4K	Approx. 60min. (29.97p)
	Full HD	Approx. 65min. (59.94p)



		*Face detection is set to OFF
Continuance battery life of movie capture	4K	Approx. 95min. (29.97p)
	Full HD	Approx. 110min. (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	150.0mm
Height	104.2mm
Depth	87.2mm
(Minimum Depth)	44.0mm

Weight

including battery and SD memory card	Approx. 900g
excluding battery and SD memory card	Approx. 821g

Operational Environment

Operating Temperature	-10°C - +40°C
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
Hot shoe cover
Cable protector
Owner's manual

