Fujifilm GFX 100S II Medium Format Camera Specification

Fujifilm GFX 100S II

Specifications

Lens Mount			FUJIFILM G mount
Image sensor			43.8mm×32.9mm GFX 102MP CMOS II with primary color filter
Number of effective pixels			102 million 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
			SSD (-2TB)
			*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 / 16bit 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	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
Panorama	[L]	vertical	
		Horizontal	
	[M]	Vertical	
		Horizontal	
Lens	Type		
	Focal length		
	Max. aperture		
	Lens configuration		
	ND filter		
Aperture			
Focus range			
Conversion lens			
Digital Tele-Converter			
Sensitivity	Still Image	Standard Output	AUTO1
			AUTO2
			AUTO3
			ISO80~12800 (1/3 step)
		Extended Output	ISO40
			ISO25600
			ISO51200
			ISO102400
	Movie	Standard Output	AUTO
			ISO100~12800 (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		8.0 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)
Shutter type			Focal Plane Shutter
Shutter speed	Mechanical shutter	P mode	30sec. to 1/4000sec.
		A mode	30sec. to 1/4000sec.
		S/M mode	60min. to 1/4000sec.
		Bulb	up to 60min.
	Electronic shutter	P mode	30sec. 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.
	Electronic front curtain shutter	P mode	
		A mode	
		S/M mode	
		Bulb	
	Mechanical + Electronic shutter	P mode	30sec. to 1/16000sec.
		A mode	30sec. to 1/16000sec.
		S/M mode	60min. to 1/16000sec.
		Bulb	up to 60min.
			*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.
	E-front + Mechanical shutter	P mode	30sec. 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	30sec. to 1/16000sec.
	(GFX: E-Front + 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	8K/DCI8K	
		6.2K	
		5.8K	
		5.4K	
		4.8K	
		4.6K(ANAMOR)	
		4K/DCI4K	1/4000sec. to 1/8 sec.
		FHD	1/4000sec. to 1/8 sec.
			*Cannot choose slower shutter speed than framerate for some settings.
	Synchronized shutter speed for flash	Mechanical shutter	1/125sec. or slower
		Electronic shutter	
Continuous shooting	CH	Electronic shutter	Approx. 4.1fps (35mm Format Mode ON)
	No. of recordable frames	JPEG	1000+ frames
		Compressed RAW	1000+ frames
		Lossless compressed RAW	96 frames
		Uncompressed RAW	24 frames
		Compressed RAW + JPEG	95 frames
		Lossless compressed RAW + JPEG	51 frames
		Uncompressed RAW + JPEG	15 frames
	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	Electronic shutter	
	No. of recordable frames	JPEG	
		Compressed RAW	
		Lossless compressed RAW	
		Uncompressed RAW	
		Compressed RAW + JPEG	
		Lossless compressed RAW + JPEG	
		Uncompressed RAW + JPEG	
Continuous shooting	CH	Electronic shutter	Approx. 3.0fps
	No. of recordable frames	JPEG	1000+ frames
		Compressed RAW	508 frames
		Lossless compressed RAW	45 frames
		Uncompressed RAW	20 frames
		Compressed RAW+JPEG	41 frames
		Lossless compressed RAW+JPEG	29 frames
		Uncompressed RAW+JPEG	16 frames
	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	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	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	Electronic Front Curtain Shutter	
	No. of recordable frames	JPEG	
		Compressed RAW	
		Lossless compressed RAW	
		Uncompressed RAW	
	CH	Mechanical shutter	Approx. 7.0fps
	No. of recordable frames	JPEG	184 frames
		Compressed RAW	30 frames
		Lossless compressed RAW	19 frames
		Uncompressed RAW	16 frames
		Compressed RAW+JPEG	16 frames
		Lossless compressed RAW+JPEG	14 frames
		Uncompressed RAW+JPEG	12 frames
	CH	Mechanical shutter	Approx. 5.0fps
	No. of recordable frames	JPEG	526 frames
		Compressed RAW	46 frames
		Lossless compressed RAW	22 frames
		Uncompressed RAW	17 frames
		Compressed RAW+JPEG	20 frames
		Lossless compressed RAW+JPEG	16 frames
		Uncompressed RAW+JPEG	12 frames
	CL	Mechanical shutter	Approx. 2.0fps
	No. of recordable frames	JPEG	1000+ frames
		Compressed RAW	1000+ frames
		Lossless compressed RAW	337 frames
		Uncompressed RAW	26 frames
		Compressed RAW+JPEG	312 frames
		Lossless compressed RAW+JPEG	42 frames
		Uncompressed RAW+JPEG	20 frames
	CL		
	No. of recordable frames	JPEG	
		Compressed RAW	
		Lossless compressed RAW	
		Uncompressed RAW	
	CL		
	No. of recordable frames	JPEG	
		Compressed RAW	

		Lossless compressed RAW	
		Uncompressed RAW	
	CL		
	No. of recordable frames	JPEG	
		Compressed RAW	
		Lossless compressed RAW	
		Uncompressed RAW	
	Pre-shot	Electronic shutter, 1.25 x Crop	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter, 1.25 x Crop	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter, 1.25 x Crop	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter	
	No. of recordable frames	While half press	
		After full press	
		Total	
	Pre-shot	Electronic shutter	
	No. of recordable frames	While half press	
		After full press	
		Total	
			*Electronic Front Curtain Shutter support CL only.

			*No. of recordable frames are calculated based on a cold start
			*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		
	Advanced filter		
	Pixel Shift Multi Shot	HIGH RESOLUTION + ACCURATE COLOR	Yes
		ACCURATE COLOR	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 / Custom1-3 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	Built-in flash		
		Guide Number	
		Effective range(ISO1600)	
		Sync. Mode	
		Flash Mode	
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		0.5 inch OLED Color Viewfinder
			Approx. 5.76 million dots
		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	0.84x 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°)
			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
Touch Screen Mode	Shooting Mode		
			AF
			Focus Area
			OFF
			Double Tap Setting (ON/OFF)
			Touch Function Setting (ON/OFF)
			EVF Touch Screen Area Setting
	Playback Mode		Swipe
			Pinch-in / Pinch-out
			Double-tap
			Drag
Sub LCD monitor			1.80 inch Monochrome LCD Monitor
	Aspect Ratio		4:3
	Dots		303x230-dot
Rear sub monitor			
	Aspect Ratio		
	Dots		
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)
		MP4	MPEG-4 AVC/H.264, AAC
	Movie compression		All Intra
			Long GOP
	8K(17:9)	File size	
		Frame rate	
		Bitrate	
	8K(16:9)	File size	
		Frame rate	
		Bitrate	
	8K(2.76:1)	File size	
		Frame rate	
		Bitrate	
	6.2K(3:2)	File size	
		Frame rate	
		Bitrate	

	6.2K(16:9)	File size	
		Frame rate	
		Bitrate	
	5.8K(2.35:1)	File size	
		Frame rate	
		Bitrate	
	5.4K(17:9)	File size	
		Frame rate	
		Bitrate	
	4.8K(3:2)	File size	
		Frame rate	
		Bitrate	
	4.8K(16:9)	File size	
		Frame rate	
		Bitrate	

	4.6K(1.38:1)	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	
			29.97p
			25p
			24p
			23.98p
		Bitrate	720Mbps
			360Mbps
			200Mbps
			100Mbps
			50Mbps

		Recording time	
	4K(16:9)	File size	3840 x 2160
		Frame rate	
			29.97p
			25p
			24p
			23.98p
		Bitrate	720Mbps
			360Mbps
			200Mbps
			100Mbps
			50Mbps
		Recording time	
	Full HD(17:9)	File size	2048 x 1080
		Frame rate	59.94p
			50p
			29.97p
			25p
			24p
			23.98p
		Bitrate	720Mbps
			360Mbps
			200Mbps
			100Mbps
			50Mbps
		Recording time	
	Full HD(16:9)	File size	1920 x 1080
		Frame rate	59.94p
			50p
			29.97p
			25p
			24p
			23.98p
		Bitrate	720Mbps
			360Mbps
			200Mbps
			100Mbps
			50Mbps
		Recording time	
	Full HD LP(17:9)	File size	

		Frame rate	
		Bitrate	
		Recording time	
	Full HDLP(16:9)	File size	
		Frame rate	
		Bitrate	
		Recording time	
	DCI4K(17:9) High speed rec.	File size	
		Frame rate	
		Bitrate	
		Recording time	
	4K(16:9) High speed rec.	File size	
		Frame rate	
		Bitrate	
		Recording time	
	Full HD(17:9) High speed rec.	File size	
		Frame rate	

		Bitrate	
		Recording time	
	Full HD(16:9) High speed rec.	File size	
		Frame rate	
		Bitrate	
		Recording time	
	HD(16:9)	File size	
		Frame rate	
		Bitrate	
		Recording time	
			*Selectable mode will be changed depending on the "Image Format" setting.
			*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.
			*For recording movies in 720Mbps, use a 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 SSD
			*Bitrate for Apple ProRes codec is not selectable.
			*Recording time can become short depending on the temperature and/or shooting conditions
Scene Position mode			
Film simulation mode			20 modes
			PROVIA/Standard
			Velvia/Vivid
			ASTIA/Soft
			Classic Chrome
			REALA ACE
			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
B & W ADJ. (Warm/Cool)			
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 setting	Still		AUTO / 100% / 200% / 400%
		ISO restriction	DR100%: No limit、DR200%: ISO160 or more、DR400%: ISO320 or more
	Movie		100% / 200% / 400%
		ISO restriction	DR100%: No limit、DR200%: ISO200 or more、DR400%: ISO400 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)
	LAN Terminal		
	Others		ø3.5mm, stereo mini connector (Microphone)
			ø3.5mm, stereo mini connector (Headphone)
			ø2.5mm, Remote Release Connector
			Hot shoe

			Synchronized terninal
Power supply			NP-W235 Li-ion battery (included)
	Battery life for still images	Economy Mode	
		Normal Mode	Approx. 530 frames
			*Auto power save ON
			*When GF63mmF2.8 R WR is set
	Actual battery life of movie capture	8K	
		6.2K	
		4K	Approx. 80min. (29.97p)
		Full HD	Approx. 70min. (59.94p)
			*Face detection is set to OFF
	Continuance battery life of movie capture	8K	
		6.2K	
		4K	Approx. 120min. (29.97p)
		Full HD	Approx. 120min. (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
	Excluding EVF	Width	
		Height	
		Depth	
		(Minimum Depth)	
Weight	including battery and memory card		Approx. 883g
	excluding battery and memory card		Approx. 802g
Operation Environment	Operating Temperature		-10℃~+40℃
	Operating Humidity		10%~80% (no condensation)
Starting up period			Approx. 0.5sec.
Accessories included			
			Li-ion battery NP-W235
			AC power adapter AC-5VJ
			Plug adapter
			USB cable
			Shoulder strap

			Body cap
			Hot shoe cover
			Memory card slot cover
			Cable protector