

Clifton Cameras Product Specification

Fujifilm GFX 50S II Medium Format Camera Full Spec

Model name				FUJIFILM GFX50S II
Lens Mount				FUJIFILM G mount
Image sensor				43.8mm×32.9mm Bayer array with primary color filter
Number of effective pixels				51.4 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.
File format of still image	DCF			Compliant with Design rule for Camera File system (DCF2.0)
	JPEG			Exif Ver.2.32
	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		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
	[M]	4:3		
		3:2		

		16:9		
		1:1		
		65:24		
		5:4		
		7:6		
	[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
				ISO100~12800 (1/3 step)
		Extended Output		ISO50
				ISO25600
				ISO51200
				ISO102400
	Movie	Standard Output		AUTO
				ISO200~6400 (1/3 step)
		Extended Output		
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			6.5 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		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.
	Electronic front curtain shutter	P mode		
		A mode		
		S/M mode		
		Bulb		
	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 1/500sec.
	E-front + Mechanical + Electronic shutter	P mode		4sec. 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 1/500sec, 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.
	Movie	DCI4K/4K		
		FHD		1/4000sec. to 1/24 sec.
				*Cannot choose slower shutter speed than framerate.
	Synchronized shutter speed for flash			1/125sec. or slower
Continuous shooting	CH	Electronic shutter, 1.25 x Crop		
	No. of recordable frames	JPEG		
		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH	Electronic shutter, 1.25 x Crop		
	No. of recordable frames	JPEG		
		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH	Electronic shutter, 1.25 x Crop		
	No. of recordable frames	JPEG		

		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH	Electronic shutter		
	No. of recordable frames	JPEG		
		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH	Electronic shutter		
	No. of recordable frames	JPEG		
		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH	Electronic Front Curtain Shutter		Approx. 2.2fps
	No. of recordable frames	JPEG		Endless
		Compressed RAW		Endless
		Lossless compressed RAW		35 frames
		Uncompressed RAW		10 frames
	CH			Approx. 3.0fps
	No. of recordable frames	JPEG		Endless
		Compressed RAW		31 frames
		Lossless compressed RAW		13 frames
		Uncompressed RAW		8 frames
	CH			
	No. of recordable frames	JPEG		
		Compressed RAW		
		Lossless compressed RAW		
		Uncompressed RAW		
	CH			
	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		
	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 1	Electronic shutter, 1.25 x Crop		
	No. of recordable frames	While half press		
		After full press		
		Total		
	Pre-shot 2	Electronic shutter, 1.25 x Crop		
	No. of recordable frames	While half press		
		After full press		
		Total		
	Pre-shot 3	Electronic shutter, 1.25 x Crop		
	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 ± 3 EV steps
	Filmsimulation bracketing			Any 3 types of film simulation selectable
	Dynamic Range			100%

	Bracketing			
				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			Yes
Focus	Mode			Single AF
				Continuous AF
				MF
	Type			TTL Contrast AF
	Low-light Performance	Contrast		-3.5EV
				*Low light priority AF-S ON
				GF80mmF1.7 attached
		Phase Detection		
	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
フラッシュ	Built-in flash			
		Guide Number		
		Effective range(ISO1600)		
		Sync. Mode		
		Flash Mode		
	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. 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
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		
				MPEG-4 AVC/H.264, Linear PCM (Stereo sound 24bit / 48KHz sampling)
		MP4		
	Movie compression			
				Long GOP
	DCI4K(17:9)	File size		
		Frame rate		

		Bitrate		
		Recording time		
	4K(16:9)	File size		
		Frame rate		
		Bitrate		
		Recording time		
	Full HD(17:9)	File size		
		Frame rate		
		Bitrate		
		Recording time		
	Full HD(16:9)	File size		1920 x 1080
		Frame rate		
				29.97p
				25p
				24p
				23.98p
		Bitrate		
				50Mbps
		Recording time		Up to 120min.
	Full HD(16:9) High speed rec.	File size		
		Frame rate		

				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%: 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
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			IEEE802.11b/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	Economy Mode		
		Normal Mode		Approx. 455 frames
				*Auto power save ON
				*When GF63mmF2.8 R WR is set
	Actual battery life of movie capture	4K		
		Full HD		Approx. 80min. (59.94p)
				*Face detection is set to OFF
	Continuance battery life of movie capture	4K		
		Full HD		Approx. 140min. (29.97p)
				*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 SD memory card			Approx. 900g
	excluding battery and SD memory card			Approx. 819g
Operation Environment	Operating Temperature			-10°C~+40°C
	Operating Humidity			10% - 80% (no condensation)
Starting up period				Approx. 0.4sec.
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