

Fujifilm GFX100RF Specification

[Fujifilm GFX100RF](#)

Model name			FUJIFILM GFX100RF
Image sensor			43.8mm×32.9mm GFX 102MP CMOS II with primary colour filter
Number of effective pixels			102 million pixels
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
		65:24	11648 x 4304
		17:6	11648 x 4112
		5:4	10928 x 8736
		7:6	10192 x 8736

		1:1	8736 x 8736
		3:4	6544 x 8736
	[M]		
		4:3	8256 x 6192
		3:2	8256 x 5504
		16:9	8256 x 4640
		65:24	8256 x 3048
		17:6	8256 x 2912
		5:4	7744 x 6192
		7:6	7232 x 6192
		1:1	6192 x 6192
		3:4	4640 x 6192
	[S]	4:3	4000 x 3000
		3:2	4000 x 2664
		16:9	4000 x 2248
		65:24	4000 x 1480
		17:6	4000 x 1408
		5:4	3744 x 3000
		7:6	3504 x 3000
		1:1	2992 x 2992
		3:4	2240 x 3000
Panorama	[L]	vertical	
		Horizontal	
	[M]	Vertical	
		Horizontal	
Lens	Type		FUJINON single focal length lens
	Focal length		f=35mm (35mm format equivalent : 28mm)
	Max. aperture		F4
	Lens configuration		10 elements in 8 groups (includes 2 aspherical elements)
	ND filter		Yes (4 stops)
Aperture			F4 - F22 1/3EV step (controlled with 9-blade aperture diaphragm)
Minimum focus distance (measured from the front of the lens)			Approx. 0.2m
Digital Tele-Converter			80mm(63mm) 63mm(50mm) 45mm(36mm) OFF *The values in parentheses are 35mm format equivalent

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			
	Digital Image Stabilization		Yes (movie mode only)
	IS MODE BOOST		Yes (movie mode only)
Shutter type			Lens Shutter
Shutter speed			
	Mechanical shutter	P mode A mode S/M mode Bulb	30sec. to 1/4000sec. 30sec. to 1/4000sec. 60min. to 1/4000sec. up to 60min.
	Electronic shutter	P mode A mode S/M mode Bulb	30sec. to 1/16000sec. 30sec. to 1/16000sec. 60min. to 1/16000sec. 1sec. Fixed
			*The Electronic Shutter may not be suitable for fast-moving objects or handheld shooting. Flash can not be used.
	Mechanical + Electronic shutter	P mode A mode S/M mode Bulb	30sec. to 1/16000sec. 30sec. to 1/16000sec. 60min. to 1/16000sec. up to 60min.

			<p>*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.</p>
	Movie	4K/DCI4K FHD	<p>1/4000sec. to 1/8 sec. 1/4000sec. to 1/8 sec. *Cannot choose slower shutter speed than framerate for some settings.</p>
Continuous shooting	CH No. of recordable frames	<p>Electronic shutter JPEG Compressed RAW Lossless compressed RAW Uncompressed RAW Compressed RAW+JPEG Lossless compressed RAW+JPEG Uncompressed RAW+JPEG</p>	<p>Approx. 3.0fps 1000+ frames 508 frames 45 frames 20 frames 41 frames 29 frames 16 frames</p>
	CH No. of recordable frames	<p>Mechanical shutter JPEG Compressed RAW Lossless compressed RAW Uncompressed RAW Compressed RAW+JPEG Lossless compressed RAW+JPEG Uncompressed RAW+JPEG</p>	<p>Approx. 6.0fps 296 frames 40 frames 20 frames 17 frames 19 frames 15 frames 12 frames</p>
	CH No. of recordable frames	<p>Mechanical shutter JPEG Compressed RAW</p>	<p>Approx. 4.0fps 1000+ frames 83 frames 25 frames</p>

		Lossless compressed RAW Uncompressed RAW Compressed RAW+JPEG Lossless compressed RAW+JPEG Uncompressed RAW+JPEG	18 frames 38 frames 21 frames 13 frames
	CL No. of recordable frames	Mechanical shutter JPEG Compressed RAW Lossless compressed RAW Uncompressed RAW Compressed RAW+JPEG Lossless compressed RAW+JPEG Uncompressed RAW+JPEG	Approx. 2.0fps 1000+ frames 1000+ frames 337 frames 26 frames 312 frames 42 frames 20 frames
			*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
	Pixel Shift Multi Shot	HIGH RESOLUTION + ACCURATE COLOUR ACCURATE COLOUR	
Focus	Mode		Single AF Continuous AF MF
	Type		Intelligent Hybrid AF (TTL contrast AF / TTL phase detection AF)
	Low-light Performance	Contrast	-0.0EV
		Phase Detection	-3.0EV
	AF frame selection	Single point AF Zone AF Wide/Tracking AF All	13x9 / 25x17 (Changeable size of AF frame) 3x3 / 5x5 / 7x7 / Custom1-3 from 117 areas on 13x9 grid Yes (AF-S: Wide / AF-C: Tracking) Yes
	Face/eye detection		Yes
	Subject detection		Yes (Animal/Bird/Automobile/Motorcycle&Bike/Airplane/Train)
Flash	Shoe mount flash	Sync. Mode	1st Curtain 2nd Curtain
		Flash Mode	TTL (TTL AUTO / STANDARD / SLOW SYNC.) MANUAL MULTI *When EF-X500 is set OFF
Hot shoe			Yes (Dedicated TTL Flash compatible)
Viewfinder	EVF	Coverage of Viewing	0.5 inch OLED Colour Viewfinder Approx. 5.76 million dots Approx. 100%

		Area vs. Capturing Area Eyepoint Diopter Adjustment Magnification Diagonal Angle of View	Approx. 24mm (from the Rear End of the Camera's Eyepiece) -5~+3m-1 0.84x with 50mm Lens (35mm Equivalent) at infinity and Diopter set to -1.0m-1 approx. 40° (Horizontal angle of view: approx. 32°) Built-In Eye Sensor
LCD monitor			3.15 inch Tilt-Type Touch Screen Colour LCD Monitor
	Aspect Ratio		3:2
	Dots		Approx. 2.10 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
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
	DCI4K(17:9)	File size	4096 x 2160
		Frame rate	29.97p 25p 24p 23.98p
		Bitrate	720Mbps 360Mbps 200Mbps 100Mbps 50Mbps
	4K(16:9)	File size	3840 x 2160

		Frame rate	29.97p 25p 24p 23.98p
		Bitrate	720Mbps 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	720Mbps 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	720Mbps 360Mbps 200Mbps 100Mbps 50Mbps
			<p>*Selectable mode will be changed depending on the "Image Format" setting.</p> <p>*For recording movies, use a SD memory card with UHS Speed Class 3 or higher.</p> <p>*For recording movies in 360Mbps, use a SD memory card with Video Speed Class 60 or higher.</p> <p>*For recording movies in 720Mbps, use a SD memory card with Video Speed Class 90 or higher.</p>

			<p>*Selectable bitrate will be changed depends on the setting.</p> <p>*Apple ProRes codec can be only recorded to SSD</p> <p>*Bitrate for Apple ProRes codec is not selectable.</p> <p>*Recording time can become short depending on the temperature and/or shooting conditions</p>
Film simulation mode			<p>20 modes</p> <p>PROVIA/Standard</p> <p>Velvia/Vivid</p> <p>ASTIA/Soft</p> <p>Classic Chrome</p> <p>REALA ACE</p> <p>PRO Neg.Hi</p> <p>PRO Neg.Std</p> <p>Classic Neg.</p> <p>Nostalgic Neg.</p> <p>ETERNA/Cinema</p> <p>ETERNA BLEACH BYPASS</p> <p>ACROS</p> <p>ACROS + Ye Filter</p> <p>ACROS + R Filter</p> <p>ACROS + G Filter</p> <p>Black & White</p> <p>Black & White + Ye Filter</p> <p>Black & White + R Filter</p> <p>Black & White + G Filter</p> <p>Sepia</p>
Monochromatic Colour			Yes
Grain Effect	Roughness		STRONG, WEAK, OFF
	Size		LARGE, SMALL
Colour Chrome Effect			STRONG, WEAK, OFF
Colour 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

	Colour 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®			
	Standard		Bluetooth Ver. 4.2 (Bluetooth low energy)
	Operating frequency (Center frequency)		2402~2480MHz
Terminal	Digital interface		USB Type-C USB 10Gbps
	HDMI output		HDMI Micro connector (Type D)
	Others		ø3.5mm, stereo mini connector (Microphone & Remote Release) ø3.5mm, stereo mini connector (Headphone) Hot shoe
Power supply			NP-W235 Li-ion battery (included)
	Battery life for still images	Normal Mode	Approx. 820 frames *Auto power save ON
	Actual battery life of movie capture	4K	Approx. 100min. (29.97p)
		Full HD	Approx. 90min. (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 Height Depth (Minimum Depth)	133.5mm 90.4mm 76.5mm 37.2mm
Weight	including battery and memory card		Approx. 735g
	excluding battery and memory card		Approx. 654g
Operation Environment	Operating Temperature		-10°C~+40°C
	Operating Humidity		10%~80% (no condensation)
Starting up period			Approx. 0.6sec.
Accessories included			Li-ion battery NP-W235 USB cable Shoulder strap Clip attaching tool Lens cap Lens hood Hood cap Adapter ring Protector filter Hot shoe cover