

Clifton Cameras Product Specification

Panasonic Lumix G100D Vlogging Camera

TYPE	Type		Digital Single Lens Mirrorless camera		
	Recording media		SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS-I UHS Speed Class 3 standard SDHC / SDXC Memory Cards.)		
	Image sensor size		17.3 x 13.0 mm (in 4:3 aspect ratio)		
	Lens mount		Micro Four Thirds mount		
IMAGE SENSOR	Type		Live MOS Sensor		
	Total pixels		21.77 megapixels		
	Camera effective pixels		20.30 megapixels		
	Color filter		Primary color filter		
	Dust reduction system		No		
LATITUDE			12 stops (V-Log L)		
IMAGE STABILIZATION SYSTEM			5-axis HYBRID I.S. *For video recording only. 4-axis compensation works in 4K video recording.		
RECORDING SYSTEM	Recording file format	Still image	JPEG (DCF, Exif 2.31), RAW		
		4K PHOTO* *	MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch)) Extracted still images: JPEG (DCF, Exif 2.31)		
		Motion picture	MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch))		
	Aspect ratio		4:3, 3:2, 16:9, 1:1		
	Image quality		RAW, RAW+Fine, RAW+Standard, Fine, Standard		
	Color space		sRGB, AdobeRGB		
	File size (Pixels)	Still image		[4:3] 5184x3888(L) / 3712x2784(M) / 2624x1968(S) / 3328x2496(4K PHOTO)	
				[3:2] 5184x3456(L) / 3712x2480(M) / 2624x1752(S) / 3504x2336(4K PHOTO)	
				[16:9] 5184x2920(L) / 3840x2160(M) / 1920x1080(S) / 3840x2160(4K PHOTO)	
				[1:1] 3888x3888(L) / 2784x2784(M) / 1968x1968(S) / 2880x2880(4K PHOTO)	
Motion picture*	MP4**	[4K] 3840x2160	4K/30p: 100Mbps 4K/25p: 100Mbps 4K/24p: 100Mbps		
		[Full HD] 1920x1080	FHD/60p: 28Mbps FHD/50p: 28Mbps FHD/30p: 20Mbps FHD/25p: 20Mbps FHD/24p: 24Mbps		

			[HD] 1280x720	HD/30p: 10Mbps HD/25p: 10Mbps
	Slow & Quick**	MP4**	[Full HD] 1920x1080	60p (1/2 / 2x / 4x / 8x) 30p (1/4 / 1/2 / 2x / 4x / 8x)
VIEWFINDER	Type	OLED Live View Finder		
	Pixels	Approx. 2,360k dots		
	Field of view / Magnification	Approx. 100% / Approx. 1.48x / 0.74x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m ⁻¹ when the aspect ratio is set to 4:3		
	Eye point / Diopter adjustment	Approx. 20 mm at infinity; -1.0 m ⁻¹ / -4.0 - +4.0 (dpt)		
	Eye sensor	Yes		
REAR MONITOR	Type	TFT LCD monitor with static touch control		
	Monitor size	Free-angle, 7.5cm (3.0-inch), 3:2 aspect		
	Pixels	Approx. 1,840k dots		
	Field of view	Approx. 100%		
FOCUS	Type	Contrast AF system		
	DFD technology	Yes		
	Focus mode	AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF		
	AF mode	Face/Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint (Full area touch is available) (Scalable AF frame size and flexible AF position)		
	AF detective range	EV -4 - 20 (F2.0, ISO100 equivalent, AFS)		
	Starlight AF	Yes		
	AF assist lamp	Yes		
	AF lock	Set the Fn button in custom menu to AF lock		
	Post Focus / Focus Stacking	Yes / Yes		
	Others	AF-ON, Shutter AF, Half Press Release, Focus/Shutter Priority, Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, AF+MF, MF Guide, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter, Focus Switching for Vert/Hor, Focus Ring Lock, Loop Movement Focus Frame, Lens Focus Resume		
EXPOSURE CONTROL	Light metering system	1728-zone multi-pattern sensing system		
	Light metering mode	Multiple / Center Weighted / Spot		
	Metering range	EV 0 - 18 (F2.0 lens, ISO100 equivalent)		
	Mode dial	Program AE (P) / Aperture Priority AE (A) / Shutter Priority AE (S) / Manual Exposure (M) / Creative Video (P/A/S/M)* / S&Q / Custom / Scene Guide / Creative Control / Intelligent Auto / Intelligent Auto Plus *The same exposure operations as P/A/S/M mode is available.		
	ISO sensitivity (Standard output sensitivity)	Still image: Auto / i.ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) Creative Video Mode: Auto / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 (Changeable to 1/3 EV step)		
	Exposure compensation	1/3 EV step, ±5EV (±3 EV for motion picture)		
	AE lock	Set the Fn button in custom menu to AE lock		

WHITE BALANCE	White balance	AWB / AWBc / AWBw / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4
	White balance adjustment	Blue/Amber bias, Magenta/Green bias
	Color temperature setting	2500-10000K in 100K
SHUTTER	Type	Electronically-control focal-plane shutter
	Shutter speed	Still image: Time (Max. 60 second), 1/16,000 - 60 Motion picture: 1/16,000 - 1/25 Creative Video M mode / MF mode: 1/16,000 - 1/2
	Live View Composite	1/2 - 60
	Self timer	10sec, 3 images / 2sec / 10sec
	Silent mode / Shutter type	Yes / Yes (Auto / Electronic front curtain / Electronic)
BRACKET	AE bracket	3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ± 3 EV, single/burst
	Aperture bracket	3, 5 or all positions in 1 EV step
	Focus bracket	1 to 999 images, focus steps can be set in 10 levels
	White balance bracket	3 images in blue/amber axis or in magenta/green axis, color temperature setting
BURST SHOOTING	Burst speed	[Electronic first curtain shutter] AFS/MF: H: 6 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View) AFF/AFC: H: 5 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View) [Electronic shutter] AFS/MF: H: 10 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View) AFF/AFC: H: 10 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	Number of recordable images	RAW / RAW+JPEG: More than 20 images JPEG: More than 480 images (When using a card with SD Speed Class with "UHS-I UHS Speed Class 3 (U3)".) * Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic.
4K PHOTO**	Burst speed	30 frames/sec
	Exif information	Yes (Each JPEG image cropped out of the 4K burst file complies with EXIF.)
TIME LAPSE SHOT		Yes
STOP MOTION ANIMATION		Yes
FLASH	Flash type	TTL Built-in-Flash, GN5.1 equivalent (ISO200 · m) / GN3.6 equivalent (ISO100 · m) (Reference), Built-in Pop-up
	Flash mode	Auto*, Auto/Red-eye Reduction*, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off *For iA, iA+ only.
	Synchronization speed	Less than 1/50 second
	Flash output adjustment	1/3EV step ± 2 EV
	Flash synchronization	1st. Curtain Sync., 2nd Curtain Sync.
	Wireless control	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch
LIVE VIEW	Digital zoom	2x

	Extra Tele Conversion	Still image: 1.4x (EX M), 2.0x (EX S) Motion picture: ON / OFF
	Other functions	Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight display (Still image / motion picture), Zebra Pattern (Still image / motion picture), Frame Maker, REC Frame Indicator, Live View Boost
SELF SHOT	Self Shot mode	Yes (Still image / motion picture)
	Shutter	Shutter Button, Touch, Face Shutter, Buddy Shutter
	Effect	Soft Skin: 10 levels, Filter Select: Expressive / Retro / High Key / Monochrome / Toy Effect, Background Control: Defocus / Clear, Slimming Mode: 10 levels
VERTICAL POSITION INFORMATION		Still image / Motion picture (ON/OFF)
FUNCTION BUTTON	REC	4K PHOTO / Exposure Comp. / Wi-Fi / Q.MENU / Video Record / LVF/Monitor Switch / LVF/Monitor Disp. Style / AF/AE LOCK / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Focus Area Set / Zoom Control / Operation Lock / Focus Ring Lock / Dial Operation Switch / Photo Style / Filter Effect / Aspect Ratio / Picture Size / Quality / Metering Mode / Burst Rate / Self Timer / Live View Composite / Bracket / Focus Mode / Highlight Shadow / i. Dynamic / i. Resolution / Min. Shtr Speed / HDR / Shutter Type / Flash Mode / Flash Adjust. / Wireless Flash Setup / Ex. Tele Conv. / Digital Zoom / Stabilizer / E-Stabilization (Video) / 4K Live Cropping / Snap Movie / Motion Pic. Set / S&Q Effect / Picture Mode in Rec. / Sound Rec Level Adj. / Sound Rec Level Disp. / Built-in Mic / Mic. Directivity Adjust / Silent Mode / Peaking / Histogram / Guide Line / Frame Maker / Zebra Pattern / Monochrome Live View / Constant Preview / Live View Boost / Rec Area / Step Zoom / Zoom Speed / Sensitivity / White Balance / AF Mode/MF / Drive Mode / Rec/Playback Switch / Off / Restore to Default
	PLAY	Wi-Fi / LVF/Monitor Switch / Rec/Playback Switch / Send Image (Smartphone) / 4K PHOTO Play / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / RAW Processing / 4K PHOTO Bulk Saving / Off / Restore to Default
PHOTO STYLE		Standard / Vivid / Natural / Scenery / Portrait / Monochrome / L. Monochrome / L. Monochrome D / Cinelike D / Cinelike V / V-Log L / Custom
FILTER		Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Dynamic Monochrome / Rough Monochrome* / Silky Monochrome* / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Soft Focus* / Fantasy / Star Filter* / One Point Color / Sunshine* *For photos only.
INTERFACE	USB	USB Type-C (USB 2.0 High-Speed)
	HDMI***	microHDMI TypeD / VIERA Link Video: Auto / 4K/25p / 1080p / 1080i / 720p / 576p Audio: Stereo
	External microphone input	φ3.5mm Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).
	Microphone	Stereo, Wind Noise Canceller: OFF / Low* / Standard / High *When attaching DMW-MS2 (sold separately).
	Speaker	Monaural
WIRELESS	Wi-Fi	IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
	Bluetooth	Bluetooth® v4.2 (Bluetooth Low Energy (BLE))

LANGUAGE	OSD language	Please refer to "OSD" Sheet
POWER	Battery	Li-ion Battery Pack (7.2V, 1025mAh, 7.4Wh) (Included) USB power charging
	Battery life (CIPA standard)	Approx. 270 images (rear monitor), 280 images (LVF), 1,050 images (Power Save LVF mode*) with H-FS12032 / H-FS12060 / H-FS45150 *Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 1 sec.
	Continuous recordable time (Motion picture)**	4K/30p, 4K/25p: Approx. 80 min with H-FS12032 / H-FS12060 / H-FS45150
	Actual recordable time (Motion picture)**	4K/30p, 4K/25p: Approx. 40 min with H-FS12032 / H-FS12060 / H-FS45150
DIMENSIONS / WEIGHT	Dimensions (W x H x D)	Approx. 115.6 x 83.1 x 54.2 mm / 4.55 x 3.27 x 2.13 inch (excluding protrusions)
	Weight	Approx. 346g / 0.76 lb (SD card, Battery, Body) Approx. 304g / 0.67 lb (Body only) Approx. 413g / 0.91 lb (SD card, Battery, H-FS12032 lens included) Approx. 546g / 1.20 lb (SD card, Battery, H-FS45150 lens included) Approx. 521g / 1.15 lb (SD card, Battery, H-FS12032 lens + tripod grip DMW-SHGR2 included)
OPERATING ENVIRONMENT	Operating temperature	0°C to 40°C (32° F to 104°F)
	Operating humidity	10%RH to 80%RH
STANDARD ACCESSORIES	Software	<ul style="list-style-type: none"> • The software to edit and playback images on computer is not bundled with this camera. To do this, PHOTOfunSTUDIO 10.0AE is available for download at Panasonic website using computer connected to the Internet. https://panasonic.jp/support/software/photofun/download/d_pfs10ae.html (For Windows) • The software to process RAW file on computer is not bundled with this camera. To do this, SILKYPIX Developer Studio is available for download at Ichikawa Soft Laboratory's website using computer connected to the Internet. http://www.isl.co.jp/SILKYPIX/english/p/ (For Windows / Mac)

	Standard accessories	<p>DC-G100DK Kit Hot Shoe Cover, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Shoulder Strap, Lens Cap</p> <p>DC-G100DW Kit Hot Shoe Cover, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Shoulder Strap, Lens Cap x 2, Lens Hood, Lens Rear Cap</p> <p>DC-G100DV Kit Hot Shoe Cover, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Shoulder Strap, Lens Cap, Tripod Grip, Hand Strap</p> <ul style="list-style-type: none">• Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.
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