LUMIX G-kamera DC-G100V

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

LATITUDE	12 stops (V-Log L)

IMAGE STABILIZATION SYSTEM

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] 3840x2160 4K/25p: 100Mbps [4K] 3840x2160 4K/24p: 100Mbps [Full HD] 1920x1080 FHD/60p: 28Mbps [Full HD] 1920x1080 FHD/50p: 28Mbps [Full HD] 1920x1080 FHD/30p: 20Mbps [Full HD] 1920x1080 FHD/25p: 20Mbps [Full HD] 1920x1080 FHD/24p: 24Mbps [HD] 1280x720 HD/30p: 10Mbps [HD] 1280x720 HD/25p: 10Mbps
Slow & Quick**	MP4**	[Full HD] 1920x1080 60p, 28Mbps (Sensor output is 120fps / 30fps / 15fps / 8fps) [Full HD] 1920x1080 50p, 28Mbps (Sensor output is 100fps / 25fps / 12fps / 6fps) [Full HD] 1920x1080 30p, 20Mbps (Sensor output is 120fps / 60fps / 15fps / 8fps / 4fps) [Full HD] 1920x1080 25p, 20Mbps (Sensor output is 100fps / 50fps / 12fps / 6fps / 3fps)

VIEWFINDER

Type	LCD Live View Finder
Pixels	Approx. 3,680k dots equivalent
Field of view / Magnification	Approx. 100% / Approx. 1.46x / 0.73x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1
Eye point / Diopter adjustment	Approx. 20 mm / -4.0 - +2.0 (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 (ISO100 equivalent)
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)
Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual Exposure
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

TIME LAPSE SHOT	Yes

STOP MOTION ANIMATION

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 ±2EV
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: 2.7x (FHD), 4.0x (HD)
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

VERTICAL POSITION INFORMATION	Still image / Motion picture (ON/OFF)* *Firmware must be updated to version 1.2.

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

PHOTO STYLE	Standard / Vivid / Natural / Scenery / Portrait / Monochrome / L. Monochrome / L. Monochrome D / Cinelike D / Cinelike V / V-Log L / Custom

FILTER

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.

PRINT

Direct print	PictBridge compatible

INTERFACE

USB	USB 2.0 Micro-B
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	Japanese, English, German, French, Italian, Spanish, Polish, Czech, Hungarian, Romanian, Netherlandic, Turkish, Portuguese, Finnish, Danish, Swedish, Greek

POWER

Battery	Li-ion Battery Pack (7.2V, 1025mAh, 7.4Wh) (Included) USB power charging
Battery life (CIPA standard)	Approx. 270 images (rear monitor), 250 images (LVF), 900 images (Power Save LVF mode*) with H-FS12032 *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 (rear monitor), 70 min (LVF) with H-FS12032
Actual recordable time (Motion picture)**	4K/30p, 4K/25p: Approx. 40 min (rear monitor), 35 min (LVF) with H-FS12032

DIMENSIONS / WEIGHT

Dimensions (W x H x D)	Approx. 115.6 x 82.5 x 54.2 mm / 4.55 x 3.24 x 2.13 inch (excluding protrusions)
Weight	Approx. 345g / 0.76 lb (SD card, Battery, Body) Approx. 303g / 0.66 lb (Body only) Approx. 303g / 0.66 lb (Body only)Approx. 514g / 1.13 lb (SD card, Battery, H-FS12032 lens + tripod grip DMW-SHGR1 included)

OPERATING ENVIRONMENT

Operating temperature	0℃ to 40℃ (32°F to 104°F)
Operating humidity	10%RH to 80%RH

STANDARD ACCESSORIES

Software	・ 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	DC-G100V Kit Hot Shoe Cover, Battery Pack, AC Adaptor, USB Connection Cable, Shoulder Strap, Lens Cap, Tripod Grip, Hand Strap ・ Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

INTERCHANGEABLE LENS-1

Lens Name	LUMIX G VARIO 12-32mm / F3.5-5.6 ASPH. / MEGA O.I.S.
Lens Construction	8 elements in 7 groups (3 aspherical lenses, 1 ED lens)
Nano Surface Coating	-

Mount	Micro Four Thirds mount
Optical Image Stabilizer	Yes (MEGA O.I.S.)
Focal Length	f=12-32mm (35mm camera equivalent 24-64mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Maximum Aperture	F3.5(Wide) - F5.6(Tele)
Minimum Aperture	F22
Closest Focusing Distance	0.20m/0.66ft (at focal lenghts 12-20mm) / 0.30m/0.98ft (at focal lenghts 21-32mm)
Maximum magnification	Approx. 0.13x / 0.26x (35mm camera equivalent)
Diagonal Angle of View	84°(Wide) to 37°(TELE)
Filter Size	37mm / 1.5in
Max. Diameter	φ55.5mm / 2.2in
Overall Length	Approx. 24mm / 0.94in (from the tip of the lens to the base side of the lens mount)
Weight	Approx. 70g / 2.47oz (excluding lens cap, lens rear cap)
Standard Accessories	Lens cap, Lens rear cap

NOTE

NOTE	** About motion picture recording / 4K PHOTO recording - Use a card with SD Speed Class with ""Class 4"" or higher when recording motion pictures (under 28Mbps). - Use an SD memory card with SD Speed Class with ""UHS-I UHS Speed Class 3 (U3)"" when recording motion pictures in [4K] [Slow & Quick] or [4K PHOTO]. (SD speed class is the speed standard regarding continuous writing.) - Recording stops when the continuous recording time exceeds 10 minutes in [4K] [Slow]. - Recording stops when the continuous recording time exceeds 20 minutes in [FHD/60p] [FHD/50p]. - Recording stops when the continuous recording time exceeds 29 minutes and 50 seconds in [Quick]. - Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds in [FHD/30p] [FHD/25p] [FHD/24p] [HD]. - MP4 motion pictures in [4K]: - When using an SDHC memory card: You can continue recording without interruption even if the file size exceeds 4 GB, but the motion picture file will be divided and recorded/played back separately. - When using an SDXC memory card: You can record a motion picture in a single file. - MP4 motion pictures in [FHD/30p] [FHD/25p] [FHD/24p] [HD]: - You can continue recording without interruption even if the file size exceeds 4 GB, but the motion picture file will be divided and recorded/played back separately. - When the ambient temperature is high or continuous recording is performed, the camera may stop the recording to protect itself. Wait until the camera cools down. *** For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as""4K compatible"".

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