



Cameras &amp; Camcorders Lumix G Compact System Cameras

## LUMIX Compact System (Mirrorless) Camera DMC-G80 with 12-60mm Lens

TYPE	Type	Digital Single Lens Mirrorless camera		
	Recording media	SD Memory Card, SDHC Memory Card, SDXC Memory Card/(Compatible with UHS-I / UHS-II 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	16.84 megapixels		
	Camera effective pixels	16.00 megapixels		
	Color filter	Primary color filter		
	Dust reduction system	Supersonic wave filter		
Image Stabilization System		Image sensor shift type (5-axis / 5-stop), Dual I.S. (Dual I.S. 2 compatible)		
RECORDING SYSTEM	Recording file format	Still image	JPEG (DCF, Exif 2.3), RAW, MPO (When attaching 3D lens in Micro Four Thirds system standard)	
		Motion picture	AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format: AAC 2ch)	
	Aspect ratio		4:3, 3:2, 16:9, 1:1	
	Image quality		RAW, RAW+Fine, RAW+Standard, Fine, Standard/MPO+Fine / MPO+Standard (with 3D lens in Micro Four Thirds system standard)	
	Color Space		sRGB, AdobeRGB	
	File size(Pixels)	Still Image	[4:3] 4592x3448(L) / 3232x2424(M) / 2272x1704(S) / 1824x1368 (When attaching 3D lens in Micro Four Third system standard)/[3:2]	

		4592x3064(L) / 3232x2160(M) / 2272x1520(S) / 1824x1216 (When attaching 3D lens in Micro Four Third system standard)/[16:9] 4592x2584(L) / 3840x2160(M) / 1920x1080(S) / 1824x1024 (When attaching 3D lens in Micro Four Third system standard)/[1:1] 3424x3424(L) / 2416x2416(M) / 1712x1712(S) / 1712x1712 (When attaching 3D lens in Micro Four Third system standard)
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/[HD] 1280x720:HD/30p 10Mbps, HD/25p: 10Mbps
	AVCHD	[Full HD] 1920x1080 FHD/50p: 28Mbps, 50p recording/[Full HD] 1920x1080 FHD/50i: 17Mbps, 50i recording/[Full HD] 1920x1080 FHD/25p: 24Mbps, 50i recording (sensor output is 25fps)/[Full HD] 1920x1080 FHD/24p: 24Mbps, 24p recording
Continuous recordable time (Motion picture)		AVCHD [FHD/50i]: Approx. 120 min with H-FS12060 / H-FS14140/MP4 [4K/30p, 4K/25p]: Approx. 90 min with H-FS12060 / H-FS14140
Actual recordable time (Motion picture)		AVCHD [FHD/50i]: Approx. 60 min with H-FS12060 / H-FS14140/MP4 [4K/30p, 4K/25p]: Approx. 45 min with H-FS12060 / H-FS14140
WiFi FUNCTION	WiFi	IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
	NFC	No
	QR Code Connection	Yes
	Password-less connection	Yes (ON / OFF selectable)
VIEWFINDER	Type	OLED Live View Finder (2,360k dots)
	Field of view	Approx. 100%
	Magnification	Approx. 1.48x / 0.74x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1
	Eye point	Approx. 20 mm from eyepiece lens
	Diopter adjustment	-4.0 - +4.0 (dpt)
	Eye sensor	Yes

	Eye sensor adjustment	High / Low
FOCUS	Type	Contrast AF system
	DFD technology	Yes
	Post Focus	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)
	AF detective range	EV -4 - 18 (ISO100 equivalent)
	AF assist lamp	Yes
	AF lock	Yes (AF/AE LOCK button)
	Others	One Shot AF, Shutter AF, Half Press Release, Quick AF, AF Sensitivity, Continuous AF (during motion picture recording), Eye Sensor AF, AF+MF, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter
	Starlight AF	Yes
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
	ISO sensitivity (Standard Output Sensitivity)	Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)/(Up to ISO6400 in motion picture recording) (ISO Auto in M mode)
	Exposure compensation	1/3 EV step $\pm 5$ EV ( $\pm 3$ EV for motion picture)
	AE lock	Yes (AF/AE LOCK button)

WHITE BALANCE	White balance	Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting
	White balance adjustment	Blue/Amber bias, Magenta/Green bias
	Color temperature setting	2500 - 10000K in 100K
SHUTTER	Type	Focal-plane shutter
	Shutter speed	Still image: Bulb (Max. 2 minutes), 1/4,000 - 60/Motion picture: 1/16,000 - 1/25/Electronic shutter: 1/16,000 - 1/Electronic first curtain shutter: 1/2,000 - 60
	Self timer	10sec, 3 images / 2sec / 10sec
PANORAMA SHOT	Panorama shot	Yes (Standard / Wide)
BURST SHOOTING	Burst speed	[Mechanical shutter] AFS: H: 9 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)/[Mechanical shutter] AFC: H: 6 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)/[Electronic shutter] SH: 40 frames/sec/[Electronic shutter] AFS: H: 10 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)/[Electronic shutter] AFC: H: 6 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	Number of recordable images	More than 45 images (when there are RAW files with the particular speed)/More than 300 images (when there are no RAW files)/(Depending on memory card type, aspect, picture size and compression)
BRACKET	AE bracket	3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. $\pm 3$ 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 5 levels
	White balance bracket	3 exposures in blue/amber axis or in magenta/green axis
TIME LAPSE SHOT		Yes
STOP MOTION ANIMATION		Yes
FLASH	Flash type	TTL Built-in-Flash, GN9.0 equivalent (ISO200 $\cdot$ m) / GN6.2 equivalent (ISO100 $\cdot$ m), Built-in Pop-up (Reference)

	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 1/160 second
	Flash output adjustment	1/3EV step $\pm$ 3EV
	Flash synchronization	1st Curtain Sync., 2nd Curtain Sync.
	Synchronization for flash dimming and exposure compensation	Yes
4K PHOTO MODE	4K Photo mode*	4K Burst: 30 frames/sec/4K Burst (S/S): 30 frames/sec/4K Pre-Burst: 30 frames/sec, approx. 2 seconds/(Depending on memory card size and battery power)
	Exif information	Yes
	Marking function	Yes (in 4K Burst (S/S) mode)
	Loop rec function	Yes (in 4K Burst (S/S) mode)
SILENT MODE		Yes
REAR MONITOR	Type	TFT LCD monitor with static touch control
	Monitor size	Free-angle 7.5cm (3.0-inch) / 3:2 aspect / Wide viewing angle
	Pixels	Approx. 1,040k dots
	Filed of view	Approx. 100%
	Monitor adjustment	Brightness, Contrast, Saturation, Red-Green, Blue-Yellow
LIVE VIEW	Digital zoom	2x, 4x
	Extra Tele Conversion	Still image: Max. 2x/Motion picture: 2.4x (FHD), 3.6x (HD)

	Other functions	Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Highlight display (Still image / motion picture), Zebra Pattern (Still image / motion picture)
DIRECTION DETECTION FUNCTION	Direction Detection Function	Yes
PHOTO STYLE	Still image and motion picture	Standard / Vivid / Natural / Monochrome / L. Monochrome / Scenery / Portrait / Custom / Cinelike D* / Cinelike V* *When Creative Video Mode is selected.
CREATIVE CONTROL	Still image	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
	Motion picture	Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Dynamic Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Fantasy / One Point Color
MOTION PICTURE FUNCTION	Flicker reduction	[1/50] / [1/60] / [1/100] / [1/120] / OFF
PLAYBACK	Playback function	30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All / Picture Only / Video Only / 4K PHOTO / Post Focus / 3D / Category Selection / Favorite, duration & effect is selectable), Playback Mode (Normal / Picture Only / Video Only / 4K PHOTO / Post Focus / 3D Play / Category / Favorite), Location Logging, RAW Processing, 4K PHOTO Bulk Saving, Light Composition, Clear Retouch, Title Edit, Text Stamp, Video Divide, Time Lapse Video, Stop Motion Video, Resize, Cropping, Rotate, Rotation Display, Favorite, DPOF Print Set, Protect, Face Recognition Edit, Picture Sort, Creating Still Pictures from a Motion Picture
IMAGE PROTECTION / ERASE	Protection	Single / Multi
	Erase	Single / Multi / All / Except Favorite
PRINT	Direct Print	PictBridge compatible
INTERFACE	USB	USB 2.0 Micro-B
	HDMI	microHDMI TypeD / VIERA Link/Video: Auto / 4K / 1080p / 1080i / 720p / 576p/Audio: Stereo/Monitor-through: 4:2:2/8-bit (While recording motion picture on the SD memory card in the camera unit.)

	Audio video output	No
	Microphone	Stereo, Wind-cut: OFF / Standard / High
	Speaker	Monaural
LANGUAGE	OSD language	Japanese, English, German, French, Italian, Spanish
CREATIVE VIDEO MODE	Exposure mode	Program AE / Aperture-Priority / Sutter-Priority / Manual Exposure
POWER	Battery	Li-ion Battery Pack (7.2V, 1200mAh, 8.7Wh) (included)
	Battery life (CIPA standard)	Approx. 330 images (rear monitor), 320 images (LVF) with H-FS12060/Approx. 320 images (rear monitor), 310 images (LVF) with H-FS14140/Power Save LVF Shooting mode: Approx. 800 images* with H-FS12060 / H-FS14140/* Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 3 sec.
DIMENSIONS / WEIGHT	Dimensions (W x H x D)	128.4 x 89 x 74.3 mm / 5.06 x 3.50 x 2.93 inch (excluding protrusions)
	Weight	Approx. 505g / 1.11 lb (SD card, Battery, Body)/Approx. 453g / 1.00 lb (Body only)/Approx. 715g / 1.58 lb (SD card, Battery, H-FS12060 lens included)/Approx. 770g / 1.70 lb (SD card, Battery, H-FS14140 lens included)
OPERATING ENVIRONMENT	Operating temperature	0oC to 40oC (32oF to 104oF)
	Operating humidity	10%RH to 80 %RH
STANDARD ACCESSORIES	Software	<ul style="list-style-type: none"> <li>The software to edit and playback images on computer is not bundled with DMC-G80. To do this, PHOTOfunSTUDIO is available for download at Panasonic website using computer connected to the Internet. <a href="http://panasonic.jp/support/global/cs/soft/download/d_pfs99pe.html">http://panasonic.jp/support/global/cs/soft/download/d_pfs99pe.html</a> (For Windows)</li> <li>The software to process RAW file on computer is not bundled with DMC-G80. To do this, SILKYPIX Developer Studio is available for download at Ichikawa Soft Laboratory's website using computer connected to the Internet. <a href="http://www.isl.co.jp/SILKYPIX/english/p/">http://www.isl.co.jp/SILKYPIX/english/p/</a> (For Windows / Mac)</li> </ul>
	Standard accessories	DMC-G80M Kit/Hot Shoe Cover, Body Cap, Battery Pack, Battery Charger, AC Cable, USB Connection Cable, Shoulder Strap, Lens Hood, Lens Cap, Lens Rear Cap/The DMC-G80/ G81 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 12-60mm / F3.5-5.6 ASPH. / POWER O.I.S.	
	Lens Construction	11 elements in 9 groups (3 aspherical lenses, 1 ED lens)	
	Nano Surface Coating	-	
	Mount	Micro Four Thirds mount	
	Optical Image Stabilizer	Yes (POWER O.I.S.)	
	Focal Length	f=12-60mm (35mm camera equivalent 24-120mm)	
	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 (Wide), 0.25m / 0.82ft (Tele)	
	Maximum magnification	Approx. 0.27x / 0.54x (35mm camera equivalent)	
	Diagonal Angle of View	84.05°(Wide) to 20.44°(Tele)	
	General	Filter Size	φ58mm / 2.3inch
		Max. Diameter	φ66.0mm / 2.6inch
Overall Length		Approx. 71mm / 2.80inch (from the tip of the lens to the base side of the lens mount)	
Weight [g]		Approx. 210g (excluding lens cap, lens rear cap and lens hood)	
Weight [oz]		Approx. 7.41oz (excluding lens cap, lens rear cap and lens hood)	
NOTE		* About motion picture recording / 4K PHOTO recording - Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures. - Use a card with SD Speed Class with "UHS-I / UHS-II UHS Speed Class 3 (U3)" when recording motion pictures with [MP4] in [4K] or [4K PHOTO]. (SD speed class is the speed standard regarding continuous writing.) - Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds with [AVCHD] in Europe. - Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds with [MP4] in Europe. - MP4 motion pictures with [MP4] 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 with [MP4] in [FHD] [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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