



## Compact System Camera DMC-G7WK

<b>TYPE</b>	<b>Type</b>	Digital Single Lens Mirrorless camera
	<b>Recording media</b>	SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS-I / UHS-II UHS Speed Class 3 standard SDHC / SDXC Memory Cards)
	<b>Image sensor size</b>	17.3 x 13.0 mm (in 4:3 aspect ratio)
	<b>Lens mount</b>	Micro Four Thirds mount
<b>IMAGE SENSOR</b>	<b>Type</b>	Live MOS Sensor

		<b>Total pixels</b>	16.84 Mpx
		<b>Camera effective pixels</b>	16.00 Mpx
		<b>Colour filter</b>	Primary colour filter
		<b>Dust reduction system</b>	Supersonic wave filter
<b>RECORDING SYSTEM</b>	<b>Recording file format</b>	<b>Still image</b>	JPEG (DCF, Exif 2.3), RAW, MPO (with optional 3D lens)
		<b>Motion picture</b>	AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format AAC 2ch)
	<b>Aspect ratio</b>		4:3, 3:2, 16:9, 1:1
	<b>Image quality</b>		RAW, RAW+Fine, RAW+Standard, Fine, Standard MPO+Fine / MPO+Standard (with optional 3D lens)
	<b>Colour Space</b>		sRGB, AdobeRGB
	<b>File size (Pixels)</b>	<b>Still Image</b>	[4:3] 4592 x 3448 (L) / 3232 x 2424 (M) / 2272 x 1704 (S) / 1824 x 1368 (with optional 3D lens) [3:2] 4592 x 3064 (L) / 3232 x 2160 (M) / 2272 x 1520 (S) / 1824 x 1216 (with optional 3D lens) [16:9] 4592 x 2584 (L) / 3840 x 2160 (M) / 1920 x 1080 (S) / 1824 x 1024 (with optional 3D lens) [1:1] 3424 x 3424 (L) / 2416 x 2416 (M) / 1712 x 1712 (S) / 1712 x 1712 (with optional 3D lens)
	<b>Motion picture*</b>	<b>MP4*:NTSC area</b>	[4K] 3840 x 2160: 4K/30p 100Mbps, 4K/24p 100Mbps [Full HD] 1920 x 1080: FHD/60p 28Mbps, FHD/30p: 20Mbps [HD] 1280 x 720: HD/30p 10Mbps [VGA] 640 x 480: VGA/30p 4Mbps

		<b>AVCHD*:NTSC area</b>	<p>[Full HD] 1920 x 1080: FHD/60p 28Mbps, 60p recording</p> <p>[Full HD] 1920 x 1080: FHD/60i 17Mbps, 60i recording</p> <p>[Full HD] 1920 x 1080: FHD/30p 24Mbps, 60i recording (sensor output is 30fps)</p> <p>[Full HD] 1920 x 1080: FHD/24p 24Mbps</p>
	<b>Continuous recordable time (Motion picture)</b>		<p>AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 140 min (LVF) with H-FS1442A</p> <p>AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 130 min (LVF) with H-FS14140</p> <p>AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 140 min (LVF) with H-FS45150</p> <p>MP4 [4K/30p]: Approx. 100 min (rear monitor), 100 min (LVF) with H-FS1442A</p> <p>MP4 [4K/30p]: Approx. 100 min (rear monitor), 100 min (LVF) with H-FS14140</p> <p>MP4 [4K/30p]: Approx. 100 min (rear monitor), 110 min (LVF) with H-FS45150</p>
	<b>Actual recordable time (Motion picture)</b>		<p>AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 70 min (LVF) with H-FS1442A</p> <p>AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 65 min (LVF) with H-FS14140</p> <p>AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 70 min (LVF) with H-FS45150</p> <p>MP4 [4K/30p]: Approx. 50 min (rear monitor), 50 min (LVF) with H-FS1442A</p> <p>MP4 [4K/30p]: Approx. 50 min (rear monitor), 50 min (LVF) with H-FS14140</p> <p>MP4 [4K/30p]: Approx. 50 min (rear monitor), 55 min (LVF) with H-FS45150</p>
<b>Wi-Fi FUNCTION</b>	<b>Wi-Fi</b>		IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
	<b>NFC</b>		No
	<b>QR Code Connection</b>		Yes
	<b>Password-less connection</b>		Yes (ON / OFF selectable)
<b>VIEWFINDER</b>	<b>Type</b>		OLED Live View Finder (2,360K-Dots)
	<b>Field of view</b>		Approx. 100%

	<b>Magnification</b>	Approx. 1.4x / 0.7x (35 mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1
	<b>Eye point</b>	Approx. 17.5 mm from eyepiece lens
	<b>Diopter adjustment</b>	-4.0 - +4.0 (dpt)
	<b>Eye sensor</b>	Yes
	<b>Eye sensor adjustment</b>	High / Low
<b>FOCUS</b>	<b>Type</b>	Contrast AF system
	<b>DFD technology</b>	Yes
	<b>Focus mode</b>	AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF
	<b>AF mode</b>	Face/Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint (Full area touch is available)
	<b>AF detective range</b>	EV -4 - 18 (ISO100 equivalent)
	<b>Starlight AF</b>	Yes
	<b>AF assist lamp</b>	Yes
	<b>AF lock</b>	Yes (AF/AE LOCK button)
	<b>Others</b>	One Shot AF, Shutter AF, Half Press Release, Quick AF, 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
<b>EXPOSURE CONTROL</b>	<b>Light metering system</b>	1728-zone multi-pattern sensing system

	<b>Light metering mode</b>	Multiple / Center Weighted / Spot
	<b>Metering range</b>	EV 0 - 18 (F2.0 lens, ISO 100 equivalent)
	<b>Exposure mode</b>	Program AE, Aperture Priority AE, Shutter Priority AE, Manual,
	<b>ISO sensitivity (Standard Output Sensitivity)</b>	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)
	<b>Exposure compensation</b>	1/3 EV step $\pm 5$ EV ( $\pm 3$ EV for motion picture)
	<b>AE lock</b>	Yes (AF/AE LOCK button)
	<b>AE bracket</b>	3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. $\pm 3$ EV, single/burst
<b>WHITE BALANCE</b>	<b>White balance</b>	Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting
	<b>White balance adjustment</b>	Blue/Amber bias, Magenta/Green bias
	<b>Colour temperature setting</b>	2500-10000K in 100K
	<b>White balance bracket</b>	3 exposures in blue/amber axis or in magenta/green axis
<b>SHUTTER</b>	<b>Type</b>	Focal-plane shutter
	<b>Shutter speed</b>	Still image: Bulb (Max. 2 minutes), 1/4,000 - 60 sec Motion picture: 1/16,000 - 1/25 sec Electronic shutter: 1/16,000 - 1 sec

	<b>Self timer</b>	10sec, 3 images / 2sec / 10sec
	<b>Remote control</b>	Remote control with Bulb function by DMW-RSL1 (Optional)
<b>SCENE GUIDE</b>	<b>Still image</b>	Clear Portrait / Silky Skin / Backlit Softness / Clear in Backlight / Relaxing Tone / Sweet Child's Face / Distinct Scenery / Bright Blue Sky / Romantic Sunset Glow / Vivid Sunset Glow / Glistening Water / Clear Nightscape / Cool Night Sky / Warm Glowing Nightscape / Artistic Nightscape / Glittering Illuminations / Handheld Night Shot / Clear Night Portrait / Soft Image of a Flower / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome
	<b>Motion picture</b>	Clear Portrait / Silky Skin / Backlit Softness / Clear in Backlight / Relaxing Tone / Sweet Child's Face / Distinct Scenery / Bright Blue Sky / Romantic Sunset Glow / Vivid Sunset Glow / Clear Nightscape / Cool Night Sky / Warm Glowing Nightscape / Artistic Nightscape / Handheld Night Shot / Clear Night Portrait / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome
<b>PANORAMA SHOT</b>	<b>Panorama shot</b>	Yes (Standard / Wide)
<b>BURST SHOOTING</b>	<b>Burst speed</b>	Mechanical shutter: H: 8 frames/sec (with AFS), 6 frames/sec (with AFC), M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View) Electronic shutter: SH: 40 frames/sec, H: 10 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	<b>Number of recordable images</b>	More than 13 images (when there are RAW files with the particular speed) More than 100 images (when there are no RAW files) (depending on memory card type, aspect, picture size and compression)
<b>4K PHOTO MODE</b>	<b>4K Photo mode*1</b>	4K Pre-Burst: 30 frames/sec, approx. 2 seconds 4K Burst: 30 frames/sec, max. 29 minutes 59 seconds 4K Burst (S/S): 30 frames/sec, max. 29 minutes 59 seconds (depending on memory card size and battery power)

	<b>Exif information</b>	Yes
	<b>Selectable aspect ratio</b>	Yes (4:3 / 3:2 / 16:9 / 1:1 are selectable)
	<b>Exposure mode</b>	Program AE/ Aperture-Priority / Sutter-Priority / Manual Exposure
	<b>Marking function</b>	Yes (in 4K Burst (S/S) mode)
<b>TIME LAPSE SHOT</b>		Yes
<b>STOP MOTION ANIMATION</b>		Yes
<b>FLASH</b>	<b>Built in flash type</b>	TTL Built-in Flash, GN9.3 equivalent (ISO200 · m) / GN6.6 equivalent (ISO100 · m), Built-in Pop-up (Reference)
	<b>Flash Mode</b>	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.
	<b>Synchronization speed</b>	Less than 1/160 second
	<b>Flash output adjustment</b>	1/3EV step ±3EV
	<b>Flash synchronization</b>	1st. Curtain Sync, 2nd Curtain Sync.
	<b>Synchronization for flash dimming and exposure compensation</b>	Yes
<b>SILENT MODE</b>		Yes
<b>REAR MONITOR</b>	<b>Type</b>	TFT LCD monitor with static touch control

	<b>Monitor size</b>	Free-angle 3.0-inch / 3:2 aspect / Wide viewing angle
	<b>Pixels</b>	Approx. 1,040K-Dots
	<b>Filed of view</b>	Approx. 100%
	<b>Monitor adjustment</b>	Brightness, Contrast, Saturation, Red-Green, Blue-Yellow
<b>LIVE VIEW</b>	<b>Digital zoom</b>	2x, 4x
	<b>Extra Tele Conversion</b>	Still image: Max. 2x Motion picture: 2.4x (FHD), 3.6x (HD), 4.8x (VGA)
	<b>Other functions</b>	Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight display (Still image / motion picture), Zebra pattern (Still image / motion picture)
<b>DIRECTION DETECTION FUNCTION</b>	<b>Direction Detection Function</b>	Yes
<b>FUNCTION BUTTON</b>	<b>Fn1, Fn2, Fn3, Fn4, Fn5, Fn6, Fn7, Fn8, Fn9, Fn10, Fn11</b>	Exposure Comp. / Wi-Fi / Q.MENU / LVF/Monitor Switch / AF/AE LOCK / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Focus Area Set / Zoom Control / Cursor Button Lock / Dial Operation Switch / Photo Style / Filter Select / Aspect Ratio / Picture Size / Quality / AFS/AFF / Metering Mode / Burst Rate / 4K PHOTO / Auto Bracket / Self Timer / Highlight Shadow / i. Dynamic / i. Resolution / HDR / Electronic Shutter / Flash Mode / Flash Adjust. / Ex. Tele Conv. / Digital Zoom / Stabilizer / Snap Movie / Motion Pic. Set / Picture Mode / Mic. Directivity Adjust / Silent Mode / Peaking / Histogram / Guide Line / Zebra Pattern / Monochrome Live View / Rec Area / Step Zoom / Zoom Speed / Touch Screen / Sensitivity / White Balance / AF Mode/MF / Restore to Default
<b>PHOTO STYLE</b>	<b>Still image and motion picture</b>	Standard / Vivid / Natural / Monochrome / Scenery / Portrait / Custom / Cinelike D* / Cinelike V* *When Creative Video Mode is selected.
<b>CREATIVE CONTROL</b>	<b>Still image</b>	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 Colour / Sunshine
	<b>Motion picture</b>	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 Colour
<b>CREATIVE VIDEO MODE</b>	<b>Exposure mode</b>	Program AE / Aperture-Priority / Sutter-Priority / Manual Exposure
<b>MOTION PICTURE FUNCTION</b>	<b>Cinelike gamma</b>	Cinelike D / Cinelike V
	<b>Flicker reduction</b>	[1/50] / [1/60] / [1/100] / [1/120] / OFF
<b>PLAYBACK</b>	<b>Playback function</b>	30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All / Picture Only / Video Only / 4K PHOTO / 3D / Category Selection / Favorite, duration & effect is selectable), Playback Mode (Normal / Picture / Video / 4K PHOTO / 3D Play / Category / Favorite), Location Logging, RAW Processing, 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
<b>IMAGE PROTECTION / ERASE</b>	<b>Protection</b>	Single / Multi
	<b>Erase</b>	Single / Multi / All / Except Favorite
<b>PRINT</b>	<b>Direct Print</b>	PictBridge compatible
<b>INTERFACE</b>	<b>USB</b>	USB 2.0 High Speed Multi
	<b>HDMI</b>	microHDMI TypeD / VIERA Link Video: Auto / 4K / 1080p / 1080i / 720p / 480p Audio: Stereo

		<b>Audio video output</b>	Monaural Type, NTSC  * Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.
		<b>Remote input</b>	φ2.5 mm for remote
		<b>External microphone input</b>	φ3.5 mm for external microphone Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (optional).
		<b>Microphone</b>	Stereo, Wind-cut: OFF / Low / Standard / High / AUTO
		<b>Speaker</b>	Monaural
<b>LANGUAGE</b>		<b>OSD language</b>	Japanese, English, German, French, Italian, Spanish, Portuguese, Chinese (Traditional)
<b>GENERAL</b>	<b>POWER</b>	<b>Battery</b>	Li-ion Battery Pack (7.2V, 1200mAh, 8.7Wh) (Included) Battery Charger
		<b>Battery life (CIPA standard)</b>	Approx. 360 images with H-FS1442A Approx. 350 images with H-FS14140 Approx. 350 images with H-FS45150
	<b>DIMENSIONS &amp; WEIGHT</b>	<b>Dimensions (W x H x D)</b>	124.9 x 86.2 x 77.4 mm / 4.92 x 3.39 x 3.05 inch (excluding protrusions)
		<b>Weight</b>	Approx. 410 g / 0.90 lb (SD card, Battery, Body) Approx. 360 g / 0.79 lb (Body only) Approx. 520 g / 1.15 lb (SD card, Battery, H-FS1442A lens included) Approx. 675 g / 1.49 lb (SD card, Battery, H-FS14140 lens included) Approx. 610 g / 1.34 lb (SD card, Battery, H-FS45150 lens included) Approx. 720 g / 1.59 lb (SD card, Battery, H-FS1442A + H-FS45150 lenses included)

	<b>OPERATING ENVIRONMENT</b>	<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F)
		<b>Operating humidity</b>	10%RH to 80%RH
	<b>STANDARD ACCESSORIES</b>	<b>Software</b>	PHOTOfunSTUDIO 9.7 PE (Windows Vista / Windows 7 / Windows 8 / Windows 8.1) SILKYPIX® Developer Studio 4.3 SE (Windows Vista / Windows 7 / Windows 8 / Windows 8.1, Mac OS X v10.5 - v10.10) LoiLoScope (Trial version) (Windows Vista / Windows 7 / Windows 8 / Windows 8.1)
		<b>Standard accessories</b>	DMC-G7W Kit Hot Shoe Cover, Body Cap, Battery Pack, Battery Charger, USB Connection Cable, Shoulder Strap, DVD, AC Cable*, Lens Hood, Lens Cap, Lens Rear Cap  * Depends on the country or region.
<b>INTERCHANGEABLE LENS-1</b>	<b>Lens Name</b>		LUMIX G VARIO 14-42 mm / F3.5-5.6 ASPH. / MEGA O.I.S.
	<b>Lens Construction</b>		12 elements in 9 groups (1 Aspherical lens)
	<b>Mount</b>		Micro Four Thirds mount
	<b>Optical Image Stabilizer</b>		Yes
	<b>Focal Length</b>		f=14 to 42 mm (35 mm camera equivalent: 28 to 84 mm)
	<b>Aperture Type</b>		7 diaphragm blades / Circular aperture diaphragm
	<b>Aperture</b>		F3.5 (Wide) - F5.6 (Tele)
	<b>Minimum Aperture</b>		F22

	<b>Closest Focusing Distance</b>	0.3 m / 1 ft	
	<b>Maximum magnification</b>	Approx. 0.16x / 0.32x (35 mm camera equivalent)	
	<b>Diagonal Angle of View</b>	75° (Wide) to 29° (Tele)	
	<b>General</b>	<b>Filter Size</b>	φ52 mm / 2.05 in
		<b>Max. Diameter</b>	φ60.6 mm / 2.39 in
		<b>Overall Length</b>	Approx. 63.6 mm / 2.50 in (from the tip of the lens to the base side of the lens mount)
<b>Weight [g]</b>		Approx. 165 g	
	<b>Weight [oz]</b>	Approx. 5.82 oz	
<b>INTERCHANGEABLE LENS-2</b>	<b>Lens Name</b>	LUMIX G VARIO 45-150 mm / F4.0-5.6 ASPH. / MEGA O.I.S.	
	<b>Lens Construction</b>	12 elements in 9 groups (2 aspherical lenses, 1 UHR lens)	
	<b>Mount</b>	Micro Four Thirds mount	
	<b>Optical Image Stabilizer</b>	Yes (MEGA O.I.S.)	
	<b>Focal Length</b>	f=45 to 150 mm (35 mm camera equivalent: 90 to 300 mm)	
	<b>Aperture Type</b>	7 diaphragm blades / Circular aperture diaphragm	
	<b>Aperture</b>	F4.0 (Wide) - F5.6 (Tele)	
	<b>Minimum Aperture</b>	F22	

	<b>Closest Focusing Distance</b>		0.9 m / 3.0 ft
	<b>Maximum magnification</b>		Approx. 0.17x / 0.35x (35 mm camera equivalent)
	<b>Diagonal Angle of View</b>		27° (Wide) to 8.2° (Tele)
	<b>General</b>	<b>Filter Size</b>	φ52 mm / 2.05 in
		<b>Max. Diameter</b>	φ62 mm / 2.44 in
		<b>Overall Length</b>	Approx. 73 mm / 2.9 in (from the tip of the lens to the base side of the lens mount)
<b>Weight [g]</b>		Approx. 200 g	
	<b>Weight [oz]</b>	Approx. 7.1 oz	
<b>NOTE</b>			<p>*1 About motion picture recording / 4K Photo recording</p> <ul style="list-style-type: none"> <li>- Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures.</li> <li>- 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.) - Maximum time to record motion pictures continuously with [MP4] in [4K] is 29 minutes 59 seconds.</li> <li>- You can continuously record a motion picture with its size set to [4K] in [MP4] or [4K PHOTO] without a pause even if the motion picture exceeds 4GB. However, the recorded content has to be played back as multiple files.</li> <li>- Maximum time to record motion pictures continuously with [MP4] in [FHD] [HD] [VGA] is 29 minutes 59 seconds or up to 4 GB.</li> </ul> <p>*2 For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible".</p>