

DMC-GH4 Specifications

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

TYPE	Type	Digital Single Lens Mirrorless cam	
	Recording media	SD Memory Card, SDHC Memory	
IMAGE SENSOR	Image sensor size	17.3 x 13.0 mm (in 4:3 aspect ratio)	
	Lens mount	Micro Four Thirds mount	
	Type	Live MOS Sensor	
	Total pixels	17.20 megapixels	
RECORDING SYSTEM	Camera effective pixels	16.05 megapixels	
	Color filter	Primary color filter	
	Dust reduction system	Supersonic wave filter	
	Recording file format	Still image	JPEG (DCF, Exif 2.3), RAW, MPO
		Motion picture	MOV (Audio format LPCM), MP4 (
	System frequency	59.94Hz, 50.00Hz, 24.00Hz	
	Aspect ratio	4:3, 3:2, 16:9, 1:1	
	Image quality	RAW, RAW+Fine, RAW+Standard MPO+Fine / MPO+Standard (with	
	Color space	sRGB, AdobeRGB	
	File size (Pixels)	Still image	[4:3] 4608x3456(L) / 3264x2448(V) [3:2] 4608x3072(L) / 3264x2176(V) [16:9] 4608x2592(L) / 3840x2160(V) [1:1] 3456x3456(L) / 2448x2448(V)
	Motion picture	MOV* 59.94Hz [4K] 3840x2160 [Full HD] 1920x1080 50.00Hz [4K] 3840x2160 [Full HD] 1920x1080 24.00Hz [C4K] 4096x2160 [4K] 3840x2160 [Full HD] 1920x1080 MP4* 59.94Hz [4K] 3840x2160 [Full HD] 1920x1080 50.00Hz [HD] 1280x720 [VGA] 640x480 [4K] 3840x2160 [Full HD] 1920x1080 24.00Hz [HD] 1280x720 [VGA] 640x480 [C4K] 4096x2160 [4K] 3840x2160 [Full HD] 1920x1080 AVCHD Progressive* AVCHD* 59.94Hz [Full HD] 1920x1080 50.00Hz [Full HD] 1920x1080	
Continuous recordable time (Motion picture)	AVCHD: Approx. 220 min with H-H AVCHD: Approx. 220 min with H-F		
Actual recordable time (Motion picture)	AVCHD: Approx. XXX min with H-H AVCHD: Approx. XXX min with H-F		
Wi-Fi FUNCTION	Wi-Fi	IEEE 802.11b/g/n, 2412 MHz - 24	
	NFC	ISO/IEC 18092, NFC-F (Passive N	
VIEWFINDER	QR Code Connection	Yes	
	Type	OLED Live View Finder (2,359K d	
FOCUS	Field of view	Approx. 100%	
	Magnification	Approx. 1.34x / 0.67x (35mm cam	
	Eye point	Approx. 21 mm from eyepiece lens	
	Diopter adjustment	-4.0 - +4.0 (dpt)	
	Eye sensor	Yes	
	Eye sensor adjustment	High / Low	
EXPOSURE CONTROL	Type	Contrast AF system	
	DFD technology	Yes	
	Focus mode	AFS (Single) / AFF (Flexible) / AFC	
	AF mode	Face/Eye Detection / Tracking / 49 (Full area touch is available)	
	AF detectable range	EV -4 - 18 (ISO100 equivalent)	
	AF assist lamp	Yes	
	AF lock	Yes (AF/AE LOCK button)	
	Others	One Shot AF, Shutter AF, Half Pres	
	Shutter	Shutter	
	WHITE BALANCE	Light metering system	1,728-zone multi-pattern sensing s
Light metering mode		Multiple / Center Weighted / Spot	
Metering range		EV0-18 (F2.0 lens, ISO100 equiv	
Exposure mode		Program AE, Aperture Priority AE,	
ISO sensitivity (Standard output sensitivity)		Auto / Intelligent ISO / 100 (Extenc (Up to ISO6400 in motion picture r	
Exposure compensation		1/3 EV step ±5EV (±3EV for motio	
SHUTTER	AE lock	Yes (AF/AE LOCK button)	
	AE bracket	3, 5, 7 frames in 1/3, 2/3 or 1 EV s	
	White balance	Auto / Daylight / Cloudy / Shade / I	
	White balance adjustment	Blue/Amber bias, Magenta/Green	
SHUTTER	Color temperature setting	2500-10000K in 100K	
	White balance bracket	3 exposures in blue/amber axis or	
BURST SHOOTING	Type	Focal-plane shutter	
	Shutter speed	Still image: Bulb (Max. 60 minutes) Motion picture: 59.94Hz: 1/16,000	
	Shutter life	Approx. 200,000 images	
	Self timer	10sec, 3 images / 2sec / 10sec	
BURST SHOOTING	Remote control	Remote control with Bulb function	
	Burst speed	Mechanical shutter: H: 12.0 frame; Electronic shutter: SH: 40.0 frame;	
FLASH	Number of recordable images	Approx. 40 images (when there ar Approx. 100 images (when there a Approx. 120 images (when using ε (depending on memory card size).	
	Built-in flash type	TTL Built-in-Flash, GN12 equivalent	
	Flash mode	Auto*, Auto/Red-eye Reduction*, F	
	Synchronization speed	Less than 1/250 second	
	Flash output adjustment	1/3EV step ±3EV	
	Flash synchronization	1st. Curtain Sync, 2nd Curtain Syr	
MONITOR	Synchronization for flash dimming and exposure compensation	Yes	
	Flash sync socket	Yes	
	Type	OLED monitor with static touch co	
	Monitor size	Free-angle 3.0-inch / 3:2 aspect / 1	
LIVE VIEW	Pixels	Approx. 1036K dots	
	Field of view	Approx. 100%	
	Monitor adjustment	Brightness (7 levels), Contrast anc	
	Digital zoom	2x, 4x	
DIRECTION DETECTION FUNCTION	Extra Tele Conversion	Still image: Max. 2x (Aspect ratio s Motion picture: 2.4x (FHD), 3.6x (t	
	Other functions	Level Gauge, Real-time Histogram	
FUNCTION BUTTON	Fn1, Fn2, Fn3, Fn4, Fn5, Fn6, Fn7, Fn8, Fn9, Fn10	Yes	
PHOTO STYLE	Still image and motion picture	Wi-Fi / Q.MENU / Preview / One P AFS/AFF / Metering Mode / Burst I / Variable Frame Rate / Picture M Zoom Speed / AF Mode/MF / Rest	
CREATIVE CONTROL	Still image	Standard / Vivid / Natural / Monoc Expressive / Retro / Old Days / Hi Bypass / Miniature Effect / Soft Fo	
	Motion picture	Expressive / Retro / Old Days / Hi Color	
CREATIVE VIDEO MODE	Exposure mode	Program AE / Aperture-Priority / Su	
	Variable frame rate	59.94Hz	MOV/FHD/100Mbps/29.97p, MP4 1500% Quick, 200% Quick, 115% MOV/FHD/100Mbps/23.98p, MP4 1200% Quick, 200% Quick, 120% AVCHD/FHD/24Mbps/29.97p; 1500% Quick, 200% Quick, 115%
		50.00Hz	MOV/FHD/100Mbps/25.00p, MP4 1250% Quick, 208% Quick, 119% AVCHD/FHD/24Mbps/25.00p; 1250% Quick, 208% Quick, 119%
MOTION PICTURE FUNCTION		24.00Hz	MOV/FHD/100Mbps/24.00p, MP4 1200% Quick, 120% Quick, 109%
	Master pedestal level	31 steps	
PLAYBACK	Luminance level	0-255 / 16-235 / 16-255	
	Synchro scan	Yes	
	Time code	Count Up: Rec Run/Free Run sele	
	SS/Gain operation	Shutter Duration/ISO / Angle/ISO /	
	Color bars / 1K Hz test tone	Yes (SMPTE / EBU / ARIB) / Yes	
	CineLike gamma	CineLike D / CineLike V	
IMAGE PROTECTION / ERASE	Playback mode	Normal playback, 30-thumbnail dis Playback Mode (Normal / Picture / Rotate, Rotation Display, Favorite,	
	Protection	Single / Multi or Cancel	
PRINT	Erase	Single / Multi / All / Except Favorit	
	Direct print	PictBridge compatible	
INTERFACE	USB	USB 2.0 High Speed Multi	
	HDMI**	Monitor-through	4:2:2 8-bit / 4:2:2 10-bit (When 4:2 information display ON/OFF (selec Automatic down-conversion (4K →

	Playback	mini-HDMI TypeD / VIERA Link, Au 59.94Hz: Auto / 4K / 1080p / 1080i 50.00Hz: Auto / 4K / 1080p / 1080i 24.00Hz: Auto / C4K / 4K / 1080p (4:2:2 10-bit or 4:2:2 8-bit is select)
	Audio video output	Monaural Type *Check the website of the Panaso
	Remote input	φ2.5mm for remote
	External microphone input	φ3.5mm for external microphone
	Headphone output	φ3.5mm for headphone
	Microphone	Stereo, Wind-cut: OFF / Low / Sta
	Speaker	Monaural
LANGUAGE	OSD language	English, German, French, Italian, 3 Greek, Vietnamese * Check the website of Panasonic
POWER	Battery	Li-ion Battery Pack (7.2V, 1860mA Battery Charger
	Battery life (CIPA standard)	Approx. 500 images with H-HS120 Approx. 500 images with H-FS141
DIMENSIONS / WEIGHT	Dimensions (W x H x D)	132.9 x 93.4 x 83.9mm / 5.23 x 3.6
	Weight	Approx. 560g / 19.75 oz (SD card, Approx. 480g / 16.93 oz (Body onl Approx. 865g / 30.51 oz (SD card, Approx. 825g / 29.10 oz (SD card,
OPERATING ENVIRONMENT	Operating temperature	0°C to 40°C (32°F to 104°F)
	Operating humidity	10% to 80%
STANDARD ACCESSORIES	Software	PHOTOFunSTUDIO 9.5 PE (Wind SILKYPIX® Developer Studio 4.1 LoiLoScope (trial version) (Windov
	Standard accessories	Battery Charger (AC Cable include Lens Cap*, Lens Hood*, Lens Rea
OPTIONAL ACCESSORIES	External flash (optional)	DMW-FL580L (optional), Wireless
	Interface unit (optional)	DMW-YAGH (optional)**
	AC adaptor (optional)	DMW-AC10 (optional)
	External microphone (optional)	DMW-MS2 (optional), Stereo/Lens
	Battery grip (optional)	DMW-BGGH3 (optional)

* About motion picture recording.

• Use a card with SD Speed Class with "UHS-I Speed Class 3 (U3)" when recording motion pictures in [4K/100Mbps] [C4K/100Mbps] [FHD/100Mbps] or [FHD/200Mbps].

• Use a card with SD Speed Class with "UHS-I Speed Class 1 (U1)" or higher when recording motion pictures in [FHD/50Mbps].

• Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures in [FHD/28Mbps].

(SD speed class is the speed standard regarding continuous writing.)

** For [4K] or [C4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as*4K compatible".

*** The DMW-YAGH is not available in some countries or regions.