DC-GH5 Spe	ecificatio	ons			Digital Single Lone Mirrorles				
TYPE	Recording media				17.3 x 13.0 mm (in 4:3 aspe	emory Card, SDXC Memory Card (Compatible with UHS-I / UHS-II UHS Speed Class 3 standard SDHC / SDXC Memory Cards)			
IMAGE SENSOR	Lens mount				Micro Four Thirds mount Live MOS Sensor				
					21.77 Megapixels 20.30 Megapixels Primary color filter				
IMAGE STABILIZATION SYSTEM	Dust reduction system				Supersonic wave filter Image sensor shift type (5-a	xis / 5-stop*), Dual I.S. (Dual I.S. 2 compatible)			
RECORDING SYSTEM	Recording file format Still image 6K PHOTO* / 4K PHOTO				JPEG (DCF, Exif 2.31), RAV				
	6K PHOTO* / 4K PHOTO  Motion picture				6K PHOTO: MP4 (H.26s/HEVC, Audio format: AAC (2ch))  4K PHOTO: MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch))  MOV: H.264/MPEG-4 AVC (Audio format: LPCM (2ch 48kHz/16-bit, 48kHz/24-bit*, 96kHz/24-bit*)) *When attaching DMW-XLR1 (sold separately).				
	System frequency				MP4: H.264/MPEG-4 AVC AVCHD Progressive, AVCHD (Audio format: Dolby Audio 2ch) 59.94Hz, 50.00Hz, 24.00Hz				
	Aspect ratio Image quality	Aspect ratio			4:3, 3:2, 16:9, 1:1 RAW, RAW+Fine, RAW+Sta				
	Color space File size (Pixels)	Still image		4:3		M) / 2624x1968(S) / 4992x3744(6K PHOTO) / 3328x2496(4K PHOTO)			
				3:2 16:9 1:1	5184x2920(L) / 3840x2160(	M) / 2624x1752(S) / 5184x3456(6K PHOTO) / 3504x2336(4K PHOTO) M) / 1920x1080(S) / 3840x2160(4K PHOTO) M) / 1968x1968(S) / 2880x2880(4K PHOTO)			
		Motion picture	MOV**	59.94Hz	[C4K] 4096x2160 [4K] 3840x2160	100   100			
			High-res audio is selectable only when using the DMV-XLR1 (sold separately).		[Full HD] 1920x1080	29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017. 29.97p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)			
						23.98p, 400Mbps (4:2:210-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017. 23.98p, 150Mbps (4:2:210-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:08-bit LongGOP) (LPCM, High-Res Audio)			
						59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017. 59.94p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) "The firmware will be released in April 2017. 59.94p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) "The firmware will be released in April 2017.			
						29.97p, 100Mbps (4:2:2 0-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017. 29.97p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017.			
						29.97p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 23.98p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017.			
				24.00Hz		23.98p, 100Mbps (4:2:210-bit LongGOP) (LPCM, High-Res Audio) "The firmware will be released in April 2017. 23.98p, 100Mbps (4:2:08-bit LongGOP) (LPCM, High-Res Audio)			
					[4K] 3840x2160	50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017. 25.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)			
					[Full HD] 1920x1080	25.00p, 150Mbps (4:2:2 10-bit LbrigGOP) (LPCM, High-Res Audio) 7 100Mbps (4:2:0 4-bit LbrigGOP) (LPCM, High-Res Audio) 50.00p, 100Mbps (4:2:2 10-bit LbrigGOP) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017.  50.00p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017.			
						50.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 25.00p, 200Mbps (4:2:0 10-bit ALL-Intra) (LPCM, High-Res Audio) 25.00p, 200Mbps (4:2:0 10-bit ALL-Intra) (LPCM, High-Res Audio)			
						25.00p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017. 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)			
					[C4K] 4096x2160	24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017. 24.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)			
					[4K] 3840x2160	24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017. 24.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) LPCM, High-Res Audio) 24.00p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017.			
					[Full HD] 1920x1080 [C4K] 4096x2160	24.00p, 200Mbps (4:2:2 10-bit ALL-Inita) (LPCM, high-Res Audio) *The firmware will be released in Second nair of 2017.  24.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017.  24.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017.			
						23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017. 23.98p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM)			
					[4K] 3840x2160	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017.			
						29.97p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017.			
					[Full HD] 1920x1080	23.98p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (AAC) 59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017. 69.94b, 100Mbps (4:2:3 10-bit LongGOP) (LPCM) *The firmware will be released in second half of 2017.			
						59.94p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) "The firmware will be released in April 2017. 59.94p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM) 29.97p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017.			
						29.97p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) *The firmware will be released in April 2017. 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM)			
						23.98p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017. 23.98p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) *The firmware will be released in April 2017.			
						23.98p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM) 59.94p, 28Mbps (4:2:0 8-bit LongGOP) (AAC)			
				50 00Hz	[AK] 3940×2460	29.97p, 20Mbps (4:2:0 8-bit LongGOP) (AAC) 23.98p, 24Mbps (4:2:0 8-bit LongGOP) (AAC) 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM)			
			AVCHD Progressive**	50.00Hz	[4K] 3840x2160	25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017.  25.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (AAC)			
				24.00	[Full HD] 1920x1080	50.00p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017. 50.00p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) *The firmware will be released in April 2017.			
						50.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM) 25.00p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017.			
						25.00p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) *The firmware will be released in April 2017. 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM)			
						50.00p, 28Mbps (4:2:0 8-bit LongGOP) (AAC) 25.00p, 20Mbps (4:2:0 8-bit LongGOP) (AAC) 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017.			
				24.00Hz	[4K] 3840x2160 [Full HD] 1920x1080 [Full HD] 1920x1080	24.00p, 400Mbps (4:2:2 10-bit ALI-Intra) (LPCM) *The firmware will be released in second half of 2017.  24.00p, 400Mbps (4:2:2 10-bit ALI-Intra) (LPCM) *The firmware will be released in second half of 2017.			
						24.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM) 24.00p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM) *The firmware will be released in second half of 2017.			
						24.00p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM) *The firmware will be released in April 2017. 24.00p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM)			
				59.94Hz		24.00p, 24Mbps (4:2:0 8-bit LongGOP) (AAC) 59.94p, 28Mbps (LongGOP) (Dolby) 59.94i, 24Mbps (LongGOP) (Dolby) (Sensor output is 29.97fps)			
			AVCHD**			59.94i, 17Mbps (LongGOP) (Dolby) (Sensor output is 29.97lps) 59.94i, 17Mbps (LongGOP) (Dolby) (Sensor output is 59.94fps) 23.98p, 24Mbps (LongGOP) (Dolby)			
				50.00Hz	[Full HD] 1920x1080	50.00p, 28Mbps (LongGOP) (Dolby) 50.00i, 24Mbps (LongGOP) (Dolby) (Sensor output is 25.00fps)			
	Continuous recordab	ole time (Motion pic	ture)	1		50.00i, 17Mbps (LongGOP) (Dolby) (Sensor output is 50.00fps)  150 min (rear monitor), 150 min (LVF) with H-ES12060, Approx. 160 min (rear monitor), 150 min (LVF) with H-HSA12035 / H-FS12060			
					MP4 [4K/60p]: Approx. 100 i	150 min (rear monitor), 150 min (LVF) with H-ES12060, Approx. 160 min (rear monitor), 160 min (LVF) with H-HSA12035 / H-FS12060 min (rear monitor), 100 min (LVF) with H-ES12060 / H-HSA12035 / H-FS12060 min (rear monitor), 110 min (LVF) with H-ES12060 / H-HSA12035 / H-FS12060			
	Actual recordable time (Motion picture)				AVCHD [FHD/60p]: Approx. 75 min (rear monitor), 75 min (LVF) with H-ES12060, Approx. 80 min (rear monitor), 75 min (LVF) with H-HSA12035 / H-FS12060 AVCHD [FHD/60i]: Approx. 75 min (rear monitor), 75 min (LVF) with H-ES12060 Min (LVF) with H-HSA12035 / H-FS12060				
WIRELESS	Wi-Fi				MP4 [4K/60p]: Approx. 50 min (rear monitor), 50 min (LVF) with H-ES12060 / H-HSA12035 / H-FS12060 MP4 [4K/30p]: Approx. 55 min (rear monitor), 55 min (LVF) with H-ES12060 / H-HSA12035 / H-FS12060 [EEE 802.11a/b/g/n/ac * 5GHz Wi-Fi is not available in some countries.				
	Bluetooth				Please refer to "Wi-Fi" Sheet Bluetooth® v4.2 (Bluetooth Low Energy (BLE))				
VIEWFINDER	QR Code Connection Password-less connection				Yes (ON / OFF selectable)  OLED Live View Finder (3.680k dots)				
	Type Field of view Magnification				Approx. 100% Approx. 1.52x / 0.76x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m <sup>-1</sup>				
	Eye point Diopter adjustment				Approx. 21 mm from eyepiece lens -4.0 - +3.0 (dpt)				
	Eye sensor Eye sensor adjustme	ent			Yes High / Low				
FOCUS	Type DFD technology Post Focus				Contrast AF system Yes				
	Post Focus Focus Stacking Focus mode				Yes /Yes /AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF				
	AF mode				Face/Eye Detection / Tracking / 225-Area / Custom Multi / 1-Area / Pinpoint (Full area touch is available) (Scalable AF frame size (by Joystick) and flexible AF position (by front/rear dial))				
	AF detective range AF assist lamp AF lock				EV -4 - 18 (ISO100 equivalent) Yes Yes (AF/AE LOCK button)				
	AF lock AF custom setting Others				AF Sensitivity, AF Area Switching Sensitivity, Moving Object Prediction 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,				
EXPOSURE CONTROL	Light metering system				Touch AF/AE Function, Touch Pad AF, Touch Shutter 1,728-zone multi-patern sensing system Multiple / Center Weighted / Spot				
	Light metering mode Metering range Exposure mode				EV0-18 (F2.0 lens, ISO100	EV0-18 (F2.0 lens, ISO100 equivalent) Program AE, Aperture Priority AE, Shutter Priority AE, Manual			
	ISO sensitivity (Standard output sensitivity)				Still image: Auto / Intelligent 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 / 12800 (Changeable to 1/3 EV step)				
MULTE DALANCE	Exposure compensation AE lock Mikits belance				1/3 EV step ±5EV (±3EV for motion picture) Yes (AF/AE LOCK button) AWB / AWBG / Davilioth / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4				
WHITE BALANCE					AWB / AWBc / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4  Blue/Amber bias, Magenta/Green bias 2500-10000K in 100K				
SHUTTER	Color temperature setting Type Shutter speed				Focal-plane shutter Still image: Bulb (Max. 30 minutes), 1/8,000 - 60				
					Electronic first curtain shutte Electronic shutter: 1/16,000	Electronic first curtain shutter: Bulb (Max. 30 minutes), 1/2,000 - 60 Electronic shutter: 1/16,000 - 1 Motion picture: 59.94Hz: 1/16,000 - 1/30, 50.00Hz: 1/16,000 - 1/25, 23.98Hz: 1/16,000 - 1/24 (When using Synchro Scan)			
	Shutter life Self timer				Approx. 200,000 images 10sec, 3 images / 2sec / 10sec				
BRACKET	Remote control AE bracket Anetture Bracket				Remote control with Bulb function by DMW-RSL1 (sold separately) 3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single/burst 3, 5 or all positions in 1 EV step				
	Aperture Bracket Focus Bracket White balance bracket				1 to 999 images, focus step:				
<u> </u>	Daiance DIACK				- exposures in plue/amper a	====			

BURST SHOOTING	Burst speed			[Mechanical shutter]  AFS/MF: H: 12 frames/sec, M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View)  AFF/AFC: H: 9 frames/sec, M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View)  [Electronic shutter]  AFS/MF: H: 12 frames/sec, M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View)  AFS/MF: H: 9 frames/sec, M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View)			
6K PHOTO* / 4K PHOTO	Number of recordable images  Burst speed			More than approx. 60 images ( More than approx. 600 images	when there are RAW files with the particular speed)		
	Exif information Marking function			[4K PHOTO] 60 frames/sec, 30 Yes (Each JPEG image croppe Yes (in 6K/4K Burst (S/S) mode	ed out of the 4K burst file complies with EXIF.)		
FLASH	Loop Rec function Flash type Flash mode			Yes (in 6K/4K Burst (S/S) mode TTL External Flash (sold separ			
	Synchronization speed Flash output adjustment			Less than 1/250 second 1/3EV step ±3EV			
	Flash synchronization Synchronization for flash dimming and Wireless control	exposure compensation	1	1st. Curtain Sync, 2nd Curtain Sync.  Yes  Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch			
REAR MONITOR	Flash sync socket Type			Yes TFT LCD monitor with static touch control Free-angle 3.2-inch (8.0cm) / 3.2 aspect / Wide viewing angle			
	Monitor size Pixels Field of view			Approx. 1,620k dots Approx. 100%			
LIVE VIEW	Monitor adjustment Digital zoom Extra Tele Conversion			Brightness, Contrast, Saturation, Red-Green, Blue-Yellow 2x, 4x Still image: Max. 2x			
	Other functions			4K PHOTO: 1.6x (4.3), 1.5x (3.2), 1.4x (16:9, 1:1)  Motion picture: 2.7x (FHD), 1.4x (4K)  Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight display (Still image / motion picture), Zebra pattern (Still image / motion picture)			
DIRECTION DETECTION FUNCTI FUNCTION BUTTON	ON  Fn1-20			Yes Wi-Fi / Q.MENU / 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 / 1 Shot RAW+JPG / 1 Shot Spot Metering / Cursor Button Lock / Dial Operation Switch / Photo Style / Filter Select / Aspect Ratio / Picture Size / Quality / AFS/AFF / Metering Mode / Burst Rate / 6K/4K Photo / Self Timer / Bracket / Highlight Shadow / i. Dynamic / i. Resolution / HDR / Shutter Type / Flash Mode / Flash Adjust. / Wireless Setup (Flash) / Ex. Tele Conv. / Digital Zoom / Stabilizer Sensitivity / ON/OFF of each item in White Balance / ON/OFF of each item in Photo Style / AF Mode/MF / Rec/Playback Switch / Off / 4K Live Crop / Motion Pic. Set / Picture Mode / Variable Frame Rate / Picture Mode / Synchro Scan / Time Code Display / Mic. Directivity Adjust / Color Bars / WFMV/ector Scope / LUT Monitor Display* / LUT HDMI Display* / Focus Transition / Silent Mode / Peaking / Histogram / Guide Line / Zebra Pattern / Monochrome Live View / Rec Area / Video-Priority Display / Step Zoom / Zoom Speed / Restore to Default **Upgrade Software Key DMW-SFU1 (sold separately) is required.**			
PHOTO STYLE  CREATIVE CONTROL				Standard / Vivid / Natural / Monochrome / L. Monochrome / Scenery / Portrait / Custom 1, 2, 3, 4 / Cinelike D / Cinelike V / Like709* / V-LogL***  "When Creative Viden Mode is selected *"! Increde Software Kev DMW-SFI11 (sold senarately) is required  Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Pynamic Monochrome / Rough Monochrome* / Silky Monochrome* / Impressive Art / High Dynamic / Cross			
CREATIVE VIDEO MODE	Exposure mode			Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect** / Soft Focus* / Fantasy / Star Filter* / One Point Color / Sunshine*  "For photos only. **Not available in 4:2:2 10-bit video or 4K video recording.  Program AE/ Aperture-Priority / Sutter-Priority / Manual Exposure			
	Exposure mode  Variable frame rate  59.94Hz			Program Az / Aperture-Priority / Sutter-Priority / Manual Exposure MOV/MP4(LPCM)/FHD/59,94p 2, 30, 56, 58, 60, 62, 64, 90, 120, 150, 180 fps MOV/MP4(LPCM)/4K/29,97p, AVCHD/FHD/29,97p			
				2, 15, 26, 28, 30, 32, 34, 45, 60 MOV/MP4(LPCM)/FHD/29.97p	1 fps		
				2, 15, 26, 28, 30, 32, 34, 45, 60 MOV/MP4(LPCM)/4K/23.98p, A 2, 12, 20, 22, 24, 26, 28, 36, 48			
			50.00Hz	MOV/MP4(LPCM)/FHD/23.98p	5, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180 fps		
			50.00H2	2, 25, 46, 48, 50, 52, 54, 75, 10 MOV/MP4(LPCM)/4K/25.00p, A 2, 12, 21, 23, 25, 27, 30, 37, 60	AVCHD/FHD/25.00p		
			24.00Hz	MOV/MP4(LPCM)/FHD/25.00p	), 62, 75, 87, 100, 125, 150, 175, 180 fps MOV/MP4(LPCM)/4K/24.00p		
ANAMORPHIC MODE	Anamorphic 4K mode (4:3)	MOV**	59.94Hz	MOV/MP4(LPCM)/FHD/24.00p			
ANAMORPHIC MODE	Anamorphic 4K mode (4.5)	High-res audio is	39.94112	332882490	29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) *The firmware will be released in second half of 2017. 29.97p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) *The firmware will be released in April 2017.		
		selectable only when using the DMW-XLR1 (sold separately).			29.97b, 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 23.98b, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017. 23.98b, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) "The firmware will be released in April 2017.		
			50.00Hz	1	23.98p. 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio) 25.00p. 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio) "The firmware will be released in second half of 2017.		
		MP4**	24.00Hz	3328x2496	25.000. 150Mbps (4:2:2 10-bit LongGOP) (I.PCM. High-Res Audio)  25.000. 100Mbps (4:2:0 8-bit LongGOP) (I.PCM. High-Res Audio)  24.000. 400Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)  14.000. 400Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)  15.000 100Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)  16.000 100Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)  17.000 100Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)  17.000 100Mbps (4:2:2 10-bit ALL-Intra) (I.PCM. High-Res Audio)		
			59.94Hz		24.000. 150Mbps (4:2:2 10-bit LongGOP) (I.PCM. High-Res Audio)  24.000. 100Mbps (4:2:0 8-bit LongGOP) (I.PCM. High-Res Audio)  59.94p, 150Mbps (4:2:0 8-bit LongGOP) (I.PCM.)		
					29.97p. 400Mbps (42:22 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017. 29.97p, 150Mbps (42:22 10-bit ALL-Intra) (LPCM) "The firmware will be released in April 2017. 29.97p, 100Mbps (42:03 8-bit LongGOP) (LPCM)		
					23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017. 23.98p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) "The firmware will be released in April 2017. 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (LPCM)		
			50.00Hz 24.00Hz		50.00p, 150Mbps (42:20 8-bit LongGOP) (LPCM) 25.00p, 400Mbps (42:2.2 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017. 25.00p, 150Mbps (42:2.2 10-bit LongGOP) (LPCM) "The firmware will be released in April 2017.		
					25.00p. 100Mbps (4:2:0 8-bit LongGOP) (LPCM) 24.00p. 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM) "The firmware will be released in second half of 2017. 24.00p. 150Mbps (4:2:2 10-bit LongGOP) (LPCM) "The firmware will be released in April 2017.		
MOTION PICTURE FUNCTION	Master pedestal level			31 steps 8-bit: 0-255 / 16-235 / 16-255	24.00p. 100Mbps (4:2:0 8-bit LongGOP) (LPCM)		
	Luminance level  Wave form monitor / Vectorscope			10-bit: 0-1023 / 64-940 / 64-1023 Selectable			
	LUT display Synchro scan Time code			LUT Monitor Display / LUT HDMI Display *Upgrade Software Key DMW-SFU1 (sold separately) is required.  Yes  Count Up: Rec Run/Free Run selectable, Time Code Mode: Drop frame/Non-drop frame selectable (When system frequency [59.94Hz] is selected.)			
	SS/Gain operation Color bars / 1kHz test tone			Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB Yes (SMPTE / EBU / ARIB) / Yes			
	Photo style for motion picture  Knee control			Cinelike D / Cinelike V / Like709* / V-Logt.***  "When Creative Video Mode is selected. **Unorade Software Key DMW-SFU1 (sold separately) is required.  Yens (in Like709 mode)			
PLAYBACK	Playback mode			30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All / Picture Only / Video Only, duration & effect is selectable), Playback Mode (Normal / Picture Only / Video Only), 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 PRINT	Protection Erase			Single / Multi or Cancel Single / Multi / All / Except Favorite PictBridge compatible			
INTERFACE	USB HDMI*** Monitor-through			USB Type-C, Super Speed USB3.1 GEN1 4:2:2 8-bit 4:2:2 10-bit (When [4K/60p] [4K/50p] mode is selected, it is not possible to record motion picture or still picture on the SD memory card in the camera unit.)			
				4:2:2 10-bit (When [4K/bUp] [4K/bUp] mode is selected, it is not possible to record motion picture or still picture on the SD memory card in the camera unit.) Auto / C4K / 4K / 1080p Information display ON/OFF (selectable) Automatic down-conversion (4K -> 1080p only) HDMI TypeA / VIERA Link, Audio: Stereo			
	Playback			59.94Hz: Auto / 4K/60p / 4K/30p / 1080p / 1080i / 720p / 480p 50.00Hz: Auto / 4K/50p / 4K/25p / 1080p / 1080i / 720p / 576p			
	Audio video output Remote input			24.00Hz: Auto / C4K / 4K/24p / 1080p No φ2.5mm for remote			
	External microphone input			### Washington for external microphone  Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).  ###################################			
	Headphone output Microphone High-res audio recording			Stereo, Wind Noise Canceller: OFF / Low / Standard / High / AUTO Yes with DMW-XLR1 (sold separately)			
LANGUAGE	Speaker SD card slot OSD language			Monaural Siot 1, Siot 2 Please refer to "OSD" Sheet			
POWER	Battery Battery life (CIPA standard)			Li-ion Battery Pack (7.2V, 1860mAh, 14Wh) (included)  Approx. 410 images (rear monitor), 400 images (LVF), 1,000 images (Power Save LVF mode*) with H-FS12060  Approx. 410 images (rear monitor), 390 images (LVF), 1,000 images (Power Save LVF mode*) with H-HSA12035  Approx. 400 images (rear monitor), 380 images (LVF), 1,000 images (Power Save LVF mode*) with H-ES12060  *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	Battery grip         DMW-BGGH5 (sold separately)           Dimensions (W x H x D)         138.5 x 98.1 x 87.4 mm / 5.45 x 3.86 x 3.44 inch (excluding protrusions)						
	Weight			Approx. 725g / 1.60 lb (SD card, Battery, Body) Approx. 845g / 1.42 lb (Body only) Approx. 935g / 2.06 lb (SD card x 1, Battery, H-FS12060 lens included) Approx. 1030g / 2.27 lb (SD card x 1, Battery, H-HSA12035 lens included) Approx. 1045g / 2.30 lb (SD card x 1, Battery, H-ES12060 lens included)			
OPERATING ENVIRONMENT	Operating temperature**** Operating humidity			-10°C to 40°C (14°F to 104°F) 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 10.0XE is available for download at Panasonic website using computer connected to the Internet.  http://panasonic.jp/support/global/cs/soft/download/d_pfs99pe.html (For Windows)			
				website using computer connect http://www.isl.co.jp/SILKYPIX/e	nglish/p/ (For Windows / Mac)		
* 6K PHOTO is a high around house	Standard accessories	out of a 4:3 or 3:3 vides	footage with	Battery Charger (AC Cable included), Battery Pack, Body Cap, Hot Shoe Cover, Eye Cup, Flash Syncro Socket Cap, Cover for the Battery Grip Connector, USB Connection Cable, Shoulder Strap, Cable Holder, Lens Cap*, Lens Hood*, Lens Rear Cap* 'Included with DC-GH5L kit, DC-GH5A kit and DC-GH5M kit. approx. 18-reappixel (approx. 6000 x 3000 effective pixel county) that the 6K image manages.			
- '	t shooting function that cuts a still image / 6K PHOTO/4K PHOTO recording	out or a 4.5 OF 5:2 VIDE0	loolage With	арргол. то-шедаріхеі (арргох. і	2000 A 0000 oneouve pixel county mai me on mildye indhayes.		

<sup>\*\*</sup> About motion picture recording / 6K PHOTO/4K PHOTO recording

- Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures in [AVCHD] or [MP4(under 28Mbps)].

- 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], [mov] or [6K PHOTO/4K PHOTO].

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

- 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 96 GB or 3 hours 4 minutes in length, but the motion picture file will be divided and recorded/played back separately.

- MP4 motion pictures with [MP4] in [FHD]:

- You can continue recording without interruption even if the file size exceeds 4 GB or 30 minutes in length, but the motion picture file will be divided and recorded/played back separately.

<sup>\*\*\*</sup> For [4K 60p] video output, use an HDMI2.0 cable that has the HDMI logo on it, and that is described as "4K compatible".

<sup>\*\*\*\*</sup> The camera may stop recording when used in lower or higher than recommended operating temperature: -10 to 40 degrees.