

# DC-GH6 Specifications

TYPE	Type		Digital Single Lens Mirrorless camera	
	Lens mount		Micro Four Thirds mount	
IMAGE SENSOR	Type		Live MOS sensor (17.3 x 13.0 mm)	
	Camera effective pixels / Total pixels		25.21 megapixels / 26.52 megapixels	
	AR (Anti Reflection) coating		Yes	
	Aspect ratio / Color filter		4:3 / Primary color filter	
	Dust reduction system		Image sensor shift type	
LATITUDE	Dynamic Range Boost ON: 13+ stops (V-Log)			
	Dynamic Range Boost OFF: 12+ stops (V-Log)			
STILL IMAGE	Recording file format		JPEG (DCF, Exif 2.31), RAW	
	Aspect ratio		4:3 / 3:2 / 16:9 / 1:1	
	File size (Pixels)	4:3	5776x4336(L) / 4096x3072(M) / 2944x2208(S) / 11552x8672(XL) / 8192x6144(LL)* *High Resolution Mode.	
		3:2	5776x3848(L) / 4096x2728(M) / 2944x1960(S) / 11552x7696(XL) / 8192x5464(LL)* *High Resolution Mode.	
		16:9	5776x3248(L) / 4096x2304(M) / 2944x1656(S) / 11552x6496(XL) / 8192x4608(LL)* *High Resolution Mode.	
Image quality		4336x4336(L) / 3072x3072(M) / 2208x2208(S) / 8672x8672(XL) / 6144x6144(LL)* *High Resolution Mode.		
Color space		RAW / RAW+Fine / RAW+Standard / Fine / Standard		
Color space		sRGB, AdobeRGB		
MOTION PICTURE	Recording file format		MOV: H.264/MPEG-4 AVC, H.265/HEVC, ProRes MP4: H.264/MPEG-4 AVC, H.265/HEVC	
	Audio format		MOV: LPCM (2ch 48kHz/24-bit, 96kHz/24-bit*) (4ch 48kHz/24-bit**, 96kHz/24-bit**) MP4: AAC (2ch 48kHz/16-bit) *When attaching Φ3.5mm microphone or DMW-XLR1 (sold separately). **When attaching DMW-XLR1 (sold separately).	
	System frequency		59.94Hz / 50.00Hz / 24.00Hz	
	Image area of video		Full / Pixel by Pixel	
	MOV (*1) (*2)	59.94Hz	[5.8K] 5760x4320 (4:3)	29.97p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
			[5.7K] 5728x3024 (17:9)	59.94p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 47.95p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 29.97p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	*HLG is selectable.	59.94Hz	[4.4K] 4352x3264 (4:3)	59.94p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 47.95p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 119.88p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 59.94p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 59.94p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 47.95p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 47.95p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 23.98p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[C4K] 4096x2160	119.88p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 59.94p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 59.94p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 47.95p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 47.95p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 23.98p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[4K] 3840x2160	119.88p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 59.94p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 59.94p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 47.95p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 47.95p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 23.98p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[FHD] 1920x1080	239.76p, 800Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)** 239.76p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)** 119.88p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)* 119.88p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 59.94p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 59.94p, 100Mbps (4:2:2 10-bit ALL-Intra) / 50Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 47.95p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 47.95p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 29.97p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 23.98p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 23.98p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF. **When Image Area of Video is set to FULL.
50.00Hz			[5.8K] 5760x4320 (4:3)	25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
			[5.7K] 5728x3024 (17:9)	50.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
			[4.4K] 4352x3264 (4:3)	50.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 100.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 50.00p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[C4K] 4096x2160	100.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 50.00p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[4K] 3840x2160	100.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 50.00p, 800Mbps (4:2:2 10-bit ALL-Intra) / 600Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.
			[FHD] 1920x1080	200.00p, 800Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)** 200.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)** 100.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)* 100.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 50.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 50.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 50.00p, 100Mbps (4:2:2 10-bit ALL-Intra) / 50Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF. **When Image Area of Video is set to FULL.
	24.00Hz	[5.8K] 5760x4320 (4:3)	24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)	
		[5.7K] 5728x3024 (17:9)	48.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)	
		[4.4K] 4352x3264 (4:3)	48.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 120.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 24.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.	
		[C4K] 4096x2160	120.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 24.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.	
[4K] 3840x2160		120.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 24.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.		
[FHD] 1920x1080		120.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)* 120.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 24.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 24.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *When Dynamic Range Boost is set to OFF.		
MP4 (*1)		59.94Hz	[4K] 3840x2160	59.94p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)* 29.97p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)* 23.98p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)* 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) *HLG is selectable.
			[FHD] 1920x1080	59.94p, 28Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) 29.97p, 20Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) 23.98p, 24Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
		50.00Hz	[4K] 3840x2160	50.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)* 25.00p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)* 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) *HLG is selectable.
			[FHD] 1920x1080	50.00p, 28Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) 25.00p, 20Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
24.00Hz	-	-		

	ProRes (*1) (*2)	59.94Hz	[5.7K] 5728x3024 (17:9)	29.97p, 1.9Gbps (ProRes 422 HQ) / 1.3Gbps (ProRes 422) (H.264/MPEG-4 AVC, LPCM) 23.98p, 1.5Gbps (ProRes 422 HQ) / 1.0Gbps (ProRes 422) (H.264/MPEG-4 AVC, LPCM)
		50.00Hz	[5.7K] 5728x3024 (17:9)	25.00p, 1.6Gbps (ProRes 422 HQ) / 1.1Gbps (ProRes 422) (H.264/MPEG-4 AVC, LPCM)
		24.00Hz	[5.7K] 5728x3024 (17:9)	24.00p, 1.5Gbps (ProRes 422 HQ) / 1.0Gbps (ProRes 422) (H.264/MPEG-4 AVC, LPCM)
VARIABLE FRAME RATE	MOV (*1) *HLG is selectable.	59.94Hz	[5.7K] 5728x3024 (17:9)	29.97p (Maximum output of sensor is 60fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 23.98p (Maximum output of sensor is 60fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *When Image Area of Video is set to FULL.
			[C4K] 4096x2160	59.94p (Maximum output of sensor is 120fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 29.97p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 29.97p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 23.98p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 23.98p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[4K] 3840x2160	59.94p (Maximum output of sensor is 120fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 29.97p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 29.97p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 23.98p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 23.98p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[FHD] 1920x1080	59.94p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM)* 59.94p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 29.97p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.265/HEVC, LPCM)* 29.97p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 23.98p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM)* 23.98p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON. *Maximum output of sensor is 120fps when Image Area of Video is set to PIXEL/PIXEL.
		50.00Hz	[5.7K] 5728x3024 (17:9)	25.00p (Maximum output of sensor is 60fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *When Image Area of Video is set to FULL.
			[C4K] 4096x2160	50.00p (Maximum output of sensor is 120fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 25.00p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 25.00p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[4K] 3840x2160	50.00p (Maximum output of sensor is 120fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 25.00p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 25.00p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[FHD] 1920x1080	50.00p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM)* 50.00p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* 25.00p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM)* 25.00p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON. *Maximum output of sensor is 120fps when Image Area of Video is set to PIXEL/PIXEL.
		24.00Hz	[5.7K] 5728x3024 (17:9)	24.00p (Maximum output of sensor is 60fps), 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *When Image Area of Video is set to FULL.
			[C4K] 4096x2160	24.00p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 24.00p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[4K] 3840x2160	24.00p (Maximum output of sensor is 60fps), 400Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM) 24.00p (Maximum output of sensor is 120fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON.
			[FHD] 1920x1080	24.00p (Maximum output of sensor is 240fps), 200Mbps (4:2:2 10-bit ALL-Intra) (H.264/MPEG-4 AVC, LPCM)* 24.00p (Maximum output of sensor is 300fps), 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)* *Maximum output of sensor is 60fps when Dynamic Range Boost is set to ON. *Maximum output of sensor is 120fps when Image Area of Video is set to PIXEL/PIXEL.
VIEWFINDER	Type	OLED Live View Finder		
	Pixels	Approx. 3.68 million dots		
	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> , when the aspect ratio is set to 4:3		
	Eye point / Diopter adjustment	Approx. 21 mm at infinity. -1.0 m <sup>-1</sup> / -4.0 - +3.0 (dpt)		
	Eye sensor	Yes		
REAR MONITOR	Type	TFT LCD monitor with static touch control		
	Monitor size	Tilt free-angle, 3.0-inch (7.6cm), 3:2 aspect		
	Pixels	Approx. 1.84 million dots		
	Field of view	Approx. 100%		
FOCUS (*3)	Type	Contrast AF system		
	DFD technology	Yes		
	Focus mode	AFS (Single) / AFC (Continuous) / MF		
	AF mode	Tracking / Full Area AF / Zone (Horizontal/Vertical) / Zone / 1-Area+ / 1-Area / Pinpoint *Automatic Detection can be turned ON to switch between Human/ Face/Eye/ Animal+Human. Except when Pinpoint is set.		
	AF detectable range	EV -4 - 18 (F2.0, ISO100 equivalent, AFS)		
	AF custom setting	AF Sensitivity, AF Area Switching Sensitivity, Moving Object Prediction		
	AF assist light	Yes		
	AF lock	Set the Fn button in custom menu to AF lock		
	Focus ring control	Nonlinear / Linear* (90°/ 120°/ 150°/ 180°/ 210°/ 240°/ 270°/ 300°/ 330°/ 360°/ 720°/ 1080° / Maximum) *When a compatible lens is attached.		
	Others	AF-ON, AF-ON: Near Shift, AF-ON: Far Shift, Focus Limiter, Focus Peaking, 1-Area AF Moving Speed, Continuous AF (during motion picture recording), Focus/Shutter Priority, Focus Switching for Vert/Hor, AF/AE Lock Hold, AF+MF, MF Assist, MF Guide, Focus Ring Lock, Show/Hide AF Mode, Shutter AF, Half Press Shutter, Quick AF, Eye Sensor AF, Loop Focus Frame, Enlarged Live Display (Video), Touch Shutter, Touch AF/AE Function, Touch Pad AF, Lens Focus Resume		
EXPOSURE CONTROL	Light metering system	1.728-zone multi-pattern sensing system		
	Light metering mode	Multiple / Center Weighted / Spot / Highlight Weighted		
	Metering range	EV0-18 (F2.0 lens, ISO100 equivalent)		
	Mode dial	Program AE (P) / Aperture Priority AE (A) / Shutter Priority AE (S) / Manual Exposure (M) / Creative Video (P/A/S/M)* / Custom 1, 2, 3, 4 / Intelligent Auto		
	Exposure compensation	*The same exposure operations as P/A/S/M mode is available.		
	Dynamic Range Boost	1/3 EV step ±5EV (±3EV for motion picture)		
	ISO sensitivity (Standard output sensitivity)	Still image	[Normal] Auto / 50 (Extended ISO) / 100-25600 [V-Log] Auto / 125 (Extended ISO) / 250-12800 *Switchable between 1/3 or 1 EV step.	
		Motion picture	[Normal] Dynamic Range Boost OFF (Base ISO 100): Auto / 50 (Extended ISO) / 100-12800 Dynamic Range Boost ON (Creative Video Mode) (Base ISO 800): Auto / 800-12800 [V-Log] Dynamic Range Boost OFF (Base ISO 250): Auto / 125 (Extended ISO) / 250-12800 Dynamic Range Boost ON (Creative Video Mode) (Base ISO 2000): Auto / 2000-12800 [Hybrid Log Gamma] Dynamic Range Boost OFF (Base ISO 250): Auto / 250-12800 Dynamic Range Boost ON (Creative Video Mode) (Base ISO 2000): Auto / 2000-12800 *Switchable between 1/3 or 1 EV step.	
	AE lock	Set the Fn button in custom menu to AE lock		
IMAGE STABILIZATION SYSTEM		B.I.S. (5-axis / 7.5-stop*) *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm (35mm camera equivalent f=120mm) when H-ES12060 is used. Dual I.S. 2 (7.5-stop**) **Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=140mm (35mm camera equivalent f=280mm) when H-FS14140 is used.		
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	Focal-plane shutter		
	Shutter speed	Still image: Bulb (Max. 30 minutes), 1/8,000 - 60 Electronic front curtain shutter: Bulb (Max. 30 minutes), 1/2,000 - 60 Electronic shutter: Bulb (Max. 60 sec), 1/32,000 - 60 Motion picture: 1/25,000 - 1/25 Creative Video M mode / MF mode: 1/25,000 - 1/8		
	Self timer	10sec, 3 images / 2sec / 10sec / Custom Time		
	Remote control	Remote control by DMW-RS2 (sold separately)		
	Silent mode / Shutter type	Yes / Yes (Auto / Mechanical) / Electronic front curtain / Electronic / Electronic+NR		
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		
	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	Mechanical shutter / Electronic front curtain shutter Electronic shutter	H: 14 frames/sec (AFS/MF), 8 frames/sec (AFC) (with Live View) M: 6 frames/sec (AFS/MF) (with Live View), 5 frames/sec (AFC) (with Live View) L: 2 frames/sec (AFS/MF/AFC) (with Live View) SH75: 75 frames/sec (AFS/MF) SH60: 60 frames/sec (AFS/MF) SH20: 20 frames/sec (AFS/MF) H: 14 frames/sec (AFS/MF), 7 frames/sec (AFC) (with Live View) M: 6 frames/sec (AFS/MF) (with Live View), 5 frames/sec (AFC) (with Live View) L: 2 frames/sec (AFS/MF/AFC) (with Live View)	
	Number of recordable images		HIML* RAW+JPEG: More than 40 images RAW: More than 65 images**, More than 50 images*** JPEG: More than 95 images**, More than 90 images*** *Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic. **When using a card with CFexpress Type B ***When using a card with SD Speed Class with "UHS-II UHS Speed Class 3 (U3)". SH RAW / RAW+JPEG / JPEG: 200 images	
TIME LAPSE SHOT			Yes	
STOP MOTION ANIMATION			Yes	
FLASH	Flash type		TTL External Flash (sold separately)	
	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 only.	
	Flash synchronization		1st Curtain Sync, 2nd Curtain Sync.	
	Flash output adjustment		1/3EV step ±3EV	
	Synchronization speed		Less than 1/250 second	
	Wireless control		Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)). Wireless Channel: 1ch/2ch/3ch/4ch	
EXTRA TELE CONVERSION			Yes	
PHOTO STYLE	Photo Style		Standard / Vivid / Natural / L. Classic Neo / Flat / Landscape / Portrait / Monochrome / L. Monochrome / L. Monochrome D / L. Monochrome S / Cinelike D2 / Cinelike V2 / Like709 / V-Log / Hybrid Log Gamma / My Photo Style 1-10	
	Picture adjustment		Contrast / Highlight / Shadow / Saturation / Color Tone / Hue / Filter Effect / Grain Effect / Color Noise / Sharpness / Noise Reduction / ISO / WB *Adjustable settings vary depending on the Photo Style mode.	
FILTER			Expressive / Retro / Old Days / High Key / Low Key / Sepia / Cross Process / Bleach Bypass	
MOTION PICTURE FUNCTION	Master pedestal level		31 steps	
	Luminance level		8-bit: 0-255 / 16-235 / 16-255 10-bit: 0-1023 / 64-940 / 64-1023	
	Wave form monitor / Vectorscope		Selectable	
	LUT view assist		Supported file types: .vlt, .cube Monitor / HDMI	
	HLG view assist		Monitor (MODE1 / MODE2 / OFF) / HDMI (AUTO / MODE1 / MODE2 / OFF)	
	Anamorphic desqueeze display		2.0x / 1.8x / 1.5x / 1.33x / 1.30x / OFF	
	Synchro scan		Yes	
	SS/Gain operation		Shutter Duration/ISO / Angle/ISO / Shutter Duration/DB	
	Color bars / 1kHz test tone		Yes (SMPTE / EBU / ARIB) / Yes	
	Knee control		Yes (in Like709 mode)	
	Red REC frame indicator		ON / OFF	
VERTICAL POSITION INFORMATION			Still image / Motion picture (ON/OFF)	
LEVEL GAUGE			Yes	
FUNCTION BUTTON	REC		Exposure Comp. / Dynamic Range Boost / Sensitivity / White Balance / Photo Style / Metering Mode / Aspect Ratio / Picture Quality / Picture Size / 1 Shot Spot Metering / Long Exposure NR / Min. Shutter Speed / 1 Shot RAW+JPEG / Filter Effect / One Push AE / Touch AE / Exposure Mode / Synchro Scan / AF Mode / AF Detection Setting / Detecting Subject / AF Custom Setting(Photo) / AF Custom Setting(Video) / Focus Limiter / Focus Limiter Range Set / Focus Peaking / Focus Peaking Sensitivity / 1-Area AF Moving Speed / Focus Ring Lock / AE LOCK / AF LOCK / AF/AE LOCK / AF-ON / AF-ON: Near Shift / AF-ON: Far Shift / Focus Area Set / Enlarged Live Display (Video) / Flash Mode / Flash Adjust. / Wireless Flash Setup / Drive Mode Setting / Bracketing / Silent Mode / Image Stabilizer / Shutter Type / Ex. Tele Conv. / Rec. File Format / Rec Quality / Rec Quality (My List) / Variable Frame Rate / Time Code Display / Audio Information / Sound Rec Level Disp. / Mute Sound Input / Sound Rec Level Adj. / Sound Rec Quality / Sound Rec Level Limiter / 4ch Mic Input / XLR Mic Adaptor Setting / Sound Monitoring Channel / Image Stabilizer / E-Stabilization (Video) / Boost I.S. (Video) / Image Area of Video / Focus Transition / Q.MENU / Rec/Playback Switch / Video Record / Video Record (Creative Video) / LVF/Monitor Switch / Dial Operation Switch / Preview / Preview Aperture Effect / Constant Preview / Level Gauge / Histogram / Luminance Spot Meter / Frame Marker / Photo Grid Line / Live View Boost / Monochrome Live View / Night Mode / LVF/Monitor Disp. Set / Video-Priority Display / Zebra Pattern / LUT View Assist (Monitor) / LUT View Assist (HDMI) / LUT Select / HLG View Assist(Monitor) / HLG View Assist (HDMI) / Sheer Overlay / I.S. Status Scope / WFM/Vector Scope / Anamorphic Desqueeze Display / Color Bars / Focus Ring Control / Zoom Control / Step Zoom / Zoom Speed / Lens Information / Destination Card Slot / Wi-Fi / Fan Mode / Save to Custom Mode / No Setting / Off (Disable Press and Hold) / Restore to Default	
	PLAY		Magnify from AF Point / LUT View Assist (Monitor) / HLG View Assist (Monitor) / Anamorphic Desqueeze Display / RAW Processing / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / Copy / Rec/Playback Switch / LVF/Monitor Switch / Video Record / Video Record (Creative Video) / Night Mode / Card Slot Change / Sound Monitoring Channel(Play) / Wi-Fi / Fan Mode / Send Image (Smartphone) / LUT View Assist (HDMI) / HLG View Assist (HDMI) / No Setting / Off (Disable Press and Hold) / Restore to Default	
OSD LANGUAGE			Please refer to "OSD" Sheet	
PRINT			PictBridge compatible	
INTERFACE	USB		USB Type-C (SuperSpeed USB 10Gbps (USB 3.2 Gen2))	
	HDMI (*4)	HDMI	HDMI TypeA Audio: ON / OFF, MP4: 2ch, MOV: 2ch (When [4ch Mic Input] is set to OFF.), 4ch (When [4ch Mic Input] is set to ON.)	
		Monitor-through	4:2:2 10bit (When [Rec Quality] is set to [4:2:2 10bit] or [4:2:0 10bit].) 4:2:2 8bit (When [Rec Quality] is set to [4:2:0 8bit].) Down Convert: Auto / C4K/4K / 1080p / 1080i / OFF	
		Playback	59.94Hz: 8K/30p* / C4K/120p** / C4K/60p / C4K/30p / 4K/120p** / 4K/60p / 4K/30p / 1080/120p / 1080p / 1080i / 720p** / 480p** 50.00Hz: 8K/25p* / C4K/100p** / C4K/50p / C4K/25p / 4K/100p** / 4K/50p / 4K/25p / 1080/100p / 1080p / 1080i / 720p** / 576p** 24.00Hz: 8K/24p* / C4K/120p** / C4K/24p / 4K/120p** / 4K/24p / 1080/120p / 1080p *Only for still image playback. **Only for playback.	
		Remote input	ø2.5mm	
		Audio	Build-in microphone: Stereo Wind Noise Canceller: OFF / Standard / High External microphone / External audio device input: ø3.5mm for external microphone / external audio device MIC (Plug-in Power) / MIC / LINE Wind Cut: OFF / Low / Standard / High *When attaching DMW-MS2 (sold separately). Special Mic: Stereo / Shotgun *When attaching DMW-MS2 (sold separately). XLR microphone: Yes with DMW-XLR1 (sold separately) 4ch mic input: Yes with DMW-XLR1 (sold separately) Speaker: Monaural Headphone output: ø3.5mm	
		Card slot	Slot 1: CFexpress Card (CFexpress Type B) Slot 2: SD Memory Card / SDHC Memory Card* / SDXC Memory Card* *Compatible with UHS-I/UHS-II UHS Speed Class 3 standard SDHC/SDXC Memory Cards and UHS-II Video Speed Class 90 standard SDXC Memory Cards.	
	TC IN/OUT	TC IN/OUT		Yes with BNC Converter Cable (bundled)
		Count up		Rec Run / Free Run
		Time code mode		Drop Frame / Non-Drop Frame (When system frequency [59.94Hz] is selected.)
HDMI time code output			ON / OFF	
FAN			TC Synchronization / TC Output Reference	
LAMP			Auto1 / Auto2 / Fast / Normal / Slow / OFF* *OFF can be set when in iA/PiA/S/M mode	
WIRELESS	Wi-Fi		Tally Lamp (front/rear) / Card Access Light / Power Indicator / Charging Light/Network Connection Light 2.4GHz (STA/AP) (IEEE802.11b/g/n) 5GHz (STA) (IEEE 802.11a/n/ac) Security: WPA/WPA2/WPA3 Please refer to "Wi-Fi" sheet	
	Bluetooth		Bluetooth® v5.0 (Bluetooth Low Energy (BLE))	
DUST AND SPLASH RESISTANT*			Yes *Dust and Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.	
POWER	Battery		Li-ion Battery Pack (7.2V, 2200mAh, 16Wh) (bundled) USB power supply, USB power charging, USB power delivery	
	Battery life (CIPA standard)	When using CFexpress Card	Approx. 330 images, 750 images (Power Save LVF mode*) with H-ES12060 / DMW-BLK22 Approx. 350 images, 800 images (Power Save LVF mode*) with H-FS12060 / DMW-BLK22 *Using a Lexar CFexpress Type B card. 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.	
		When using SD memory card	Approx. 360 images, 850 images (Power Save LVF mode*) with H-ES12060 / DMW-BLK22 Approx. 380 images, 900 images (Power Save LVF mode*) with H-FS12060 / DMW-BLK22 *Using a Panasonic SDXC memory card. 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) (*1)	When using CFexpress Card	MP4 [4K/60p]: Approx. 80 min with H-ES12060 / H-FS12060 MP4 [FHD/60p]: Approx. 90 min with H-ES12060 / H-FS12060	
		When using SD memory card	MP4 [4K/60p]: Approx. 90 min with H-ES12060 / H-FS12060 MP4 [FHD/60p]: Approx. 100 min with H-ES12060 / H-FS12060	
	Actual recordable time (Motion picture) (*1)	When using CFexpress Card	MP4 [4K/60p]: Approx. 40 min with H-ES12060 / H-FS12060 MP4 [FHD/60p]: Approx. 45 min with H-ES12060 / H-FS12060	
	When using SD memory card	MP4 [4K/60p]: Approx. 45 min with H-ES12060 / H-FS12060 MP4 [FHD/60p]: Approx. 50 min with H-ES12060 / H-FS12060		
DIMENSIONS / WEIGHT	Dimensions (W x H x D)		Approx. 138.4 x 100.3 x 99.6 mm / 5.45 x 3.95 x 3.92 inch (excluding protrusions)	
	Weight		Approx. 823g / 1.81 lb (SD Memory Card x 1, Battery, Body) Approx. 739g / 1.63 lb (Body only)	
OPERATING ENVIRONMENT	Operating temperature		-10°C to 40°C (14°F to 104°F)	
	Operating humidity		10%RH to 80%RH	

STANDARD ACCESSORIES	Software	Recording	<p>LUMIX Tether          ·This software is used to control a Panasonic digital camera from a computer. It allows you to change various settings of the camera, perform remote recording, and save remotely recorded images to the PC. Check the site below to download and install the software.  <a href="http://panasonic.jp/support/global/cs/soft/download/d_lumixtether.html">http://panasonic.jp/support/global/cs/soft/download/d_lumixtether.html</a> (For Windows / Mac)</p> <p>LUMIX Sync          ·This software is used to control a Panasonic digital camera from a smartphone. Check the site below to download and install the software.  <a href="https://panasonic.jp/support/global/cs/dsc/">https://panasonic.jp/support/global/cs/dsc/</a> (For Android™ / iOS)</p>
		Playback / Editing	<p>·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  <a href="http://www.isl.co.jp/SILKYPIX/english/pl/">http://www.isl.co.jp/SILKYPIX/english/pl/</a> (For Windows / Mac)</p>
	Standard accessories		<p>DC-GH6 Kit          Body Cap, Hot Shoe Cover, Eye Cup, Flash Synchro Socket Cap, Shoulder Strap, Battery Pack, Battery Charger, AC Adaptor, USB Connection Cable (A-C), Cable Holder, BNC Converter Cable</p> <p>DC-GH6L Kit / DC-GH6M Kit          Body Cap, Hot Shoe Cover, Eye Cup, Flash Synchro Socket Cap, Shoulder Strap, Battery Pack, Battery Charger, AC Adaptor, USB Connection Cable (A-C), Cable Holder, BNC Converter Cable, Lens Cap, Lens Hood, Lens Rear Cap</p> <p>·The Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.</p>

(\*1) About motion picture recording

- The cards that can be used for recording vary depending on the motion pictures bit rate and format type.  
 Motion pictures with 72Mbps or less: CFexpress card, SD memory card with SD Speed Class with Class 10 or Video Speed Class 10 or higher  
 Motion pictures with 200Mbps or less: CFexpress card, SD memory card with UHS-I / UHS-II UHS Speed Class 3 (U3) or Video Speed Class 30 or higher  
 Motion pictures with 400Mbps or less: CFexpress card, SD memory card with Video Speed Class 60 or higher  
 Motion pictures with 600Mbps or less: CFexpress card, SD memory card with Video Speed Class 90  
 Motion pictures with 800Mbps or more, variable frame rate with ALL-Intra, or ProRes: CFexpress card

- A new file will be created to continue recording if the continuous recording time exceeds the following conditions.  
 Motion pictures with less than 72Mbps: 30 minutes  
 Motion pictures with 72Mbps or more: 3 hours 4 minutes

- A new file will be created to continue recording if the file size exceeds the following conditions.  
 [MP4] in [FHD]: 4GB  
 [MP4] in [4K]: 96GB  
 [MOV] in 600Mbps or less: 192GB  
 [MOV] in 800Mbps: 640GB  
 [ProRes] in [5.7K]: 640GB

- If the resolution is higher than C4K, the frame rate is higher than 60p or set to ProRes, the camera may stop the recording to protect itself. Wait until the camera cools down.

(\*2) High-res audio is selectable only when attaching Ø3.5mm microphone or DMW-XLR1 (sold separately).

(\*3) About AF

- Continuous AF is not available for High Frame Rate video shooting above 120p (200p or 240p). It will be the AFS operation for 1-Area AF. 200p High Frame Rate video shooting requires a firmware update for the compatible lens.  
 - Automatic Detection is not available for High Frame Rate video shooting above 60p (100p or 120p).  
 - Tracking and Automatic Detection are not available when using HDMI cable or USB connection cable for High Frame Rate video shooting (100p or 120p) above 60p.

(\*4) To output motion pictures with 4K or higher, use an Ultra High Speed HDMI cable (Type A–Type A plug, up to 1.5 m (4.9 feet) long).