

## Clifton Cameras Product Specification

### Panasonic LUMIX GH6 Body Only Full Spec

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.		
		1:1	4336x4336(L) / 3072x3072(M) / 2208x2208(S) / 8672x8672(XL)* / 6144x6144(LL)* *High Resolution Mode.		
	Image quality		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 Ø3.5mm 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)  *HLG is selectable	59.94Hz	[5.8K] 5760x4320 0 (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 4 (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)	

			<p>[4.4K] 4352x326 4 (4:3)</p>	<p>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)</p>
			<p>[C4K] 4096x216 0</p>	<p>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.</p>
			<p>[4K] 3840x216 0</p>	<p>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.</p>

			<p>[FHD] 1920x1080</p> <p>239.76p, 800Mbps (4:2:2 10-bit ALL-Intra) / 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)**</p> <p>239.76p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)**</p> <p>119.88p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)*</p> <p>119.88p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)*</p> <p>59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>59.94p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>59.94i, 100Mbps (4:2:2 10-bit ALL-Intra) / 50Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>47.95p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>47.95p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>29.97p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>29.97p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>23.98p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>23.98p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>*When Dynamic Range Boost is set to OFF. **When Image Area of Video is set to FULL.</p>
		50.00Hz	<p>[5.8K] 5760x4320 (4:3)</p> <p>25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p>
			<p>[5.7K] 5728x3024 (17:9)</p> <p>50.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p>
			<p>[4.4K] 4352x3264 (4:3)</p> <p>50.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p>
			<p>[C4K] 4096x2160</p> <p>100.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)*</p> <p>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)</p> <p>50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)</p> <p>25.00p, 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p> <p>*When Dynamic Range Boost is set to OFF.</p>

			<p>[4K] 3840x216 0</p> <p>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.</p>
			<p>[FHD] 1920x1080 0</p> <p>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) 50.00i, 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.</p>
	24.00Hz		<p>[5.8K] 5760x4320 (4:3)</p> <p>24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p>
			<p>[5.7K] 5728x3024 (17:9)</p> <p>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)</p>
			<p>[4.4K] 4352x3264 (4:3)</p> <p>48.00p, 300Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)</p>
			<p>[C4K] 4096x2160 0</p> <p>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.</p>
			<p>[4K] 3840x2160 0</p> <p>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)</p>

				*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)	
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)

