



**LUMIX S5II (DC-S5M2)**  
Full-Frame Mirrorless Camera

## TYPE

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Type	Digital Single Lens Mirrorless camera
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Lens mount	L-Mount
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## IMAGE SENSOR

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Type	35mm full-frame (35.6mm x 23.8mm) CMOS sensor
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Camera effective pixels / Total pixels	24.20 megapixels / 25.28 megapixels
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AR (Anti Reflection) coating	Yes
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Aspect ratio / Color filter	3:2 / Primary color filter
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Dust reduction system	Image sensor shift type
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## LATITUDE

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14+ stops (V-Log)
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## STILL IMAGE

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Recording file format	JPEG (DCF, Exif 2.31), RAW
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Aspect ratio	4:3 / 3:2 / 16:9 / 1:1 / 65:24 / 2:1
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File size (pixels) when using full-frame lenses	3:2	6000x4000(L) / 4272x2848(M) / 3024x2016(S) / 12000x8000(XL)* / 8496x5664(LL)* *High Resolution mode.
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	<b>4:3</b>	5328x4000(L) / 3792x2848(M) / 2688x2016(S) / 10656x8000(XL)* / 7552x5664(LL)* *High Resolution mode.
	<b>16:9</b>	6000x3368(L) / 4272x2400(M) / 3024x1704(S) / 12000x6736(XL)* / 8496x4784(LL)* *High Resolution mode.
	<b>1:1</b>	4000x4000(L) / 2848x2848(M) / 2016x2016(S) / 8000x8000(XL)* / 5664x5664(LL)* *High Resolution mode.
	<b>65:24</b>	6000x2208(L)
	<b>2:1</b>	6000x3000(L)
<b>File size (pixels) when using APS-C/Super 35mm lenses</b>	<b>3:2</b>	3984x2656(L) / 2880x1920(M) / 2064x1376(S)
	<b>4:3</b>	3536x2656(L) / 2560x1920(M) / 1840x1376(S)
	<b>16:9</b>	3984x2240(L) / 2880x1624(M) / 1920x1080(S)
	<b>1:1</b>	2656x2656(L) / 1920x1920(M) / 1376x1376(S)
<b>Image quality</b>	RAW / RAW+Fine / RAW+Standard / Fine / Standard (High Resolution mode: Combined / RAW / RAW+Fine / Fine)	
<b>Color space</b>	sRGB, AdobeRGB	

## MOTION PICTURE

<b>Recording file format</b>	MOV: H.264/MPEG-4 AVC, H.265/HEVC MP4: H.264/MPEG-4 AVC, H.265/HEVC	
<b>Audio format</b>	MOV: LPCM (2ch 48kHz/24-bit, 96kHz/24-bit*) (4ch 48kHz/24-bit**, 96kHz/24-bit**) MP4: AAC (2ch 48kHz/16-bit) *When attaching $\Phi$ 3.5mm microphone or DMW-XLR1 (sold separately). **When attaching DMW-XLR1 (sold separately).	
<b>System frequency</b>	59.94Hz / 50.00Hz / 24.00Hz	
<b>Image area of video</b>	Full / APS-C / PIXEL/PIXEL	
<b>MOV / 59.94Hz / FULL (*HLG is selectable.) (*1) (*2)</b>	<b>[6K] 5952x3968 (3:2)</b>	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)
	<b>[6K] 5952x3136 (17:9)</b>	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)
	<b>[5.9K] 5888x3312 (16:9)</b>	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)
	<b>[C4K] 4096x2160</b>	29.97p, 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, 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)

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**[4K] 3840x2160**

29.97p, 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, 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)

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**[FHD] 1920x1080**

119.88p, 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, 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)  
47.95p, 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, 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, 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)

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**MOV / 59.94Hz / APS-C /  
PIXEL/PIXEL (\*HLG is  
selectable.) (\*1) (\*2)**

**[C4K] 4096x2160**

59.94p, 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, 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, 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, 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)

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**[4K] 3840x2160**

59.94p, 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, 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, 150Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)  
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23.98p, 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)

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**[3.3K] 3328x2496 (4:3)**

47.95p, 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, 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, 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)

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**[FHD] 1920x1080**

119.88p, 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, 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)  
47.95p, 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, 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, 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 Image Area of Video is set to APS-C.

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**MOV / 50.00Hz / FULL (\*HLG is  
selectable.) (\*1) (\*2)**

**[6K] 5952x3968 (3:2)**

25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

	<b>[6K] 5952x3136 (17:9)</b>	25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[5.9K] 5888x3312 (16:9)</b>	25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[C4K] 4096x2160</b>	25.00p, 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)
	<b>[4K] 3840x2160</b>	25.00p, 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)
	<b>[FHD] 1920x1080</b>	100.00p, 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, 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) 25.00p, 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)
<b>MOV / 50.00Hz / APS-C / PIXEL/PIXEL (*HLG is selectable.) (*1) (*2)</b>	<b>[C4K] 4096x2160</b>	50.00p, 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, 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)
	<b>[4K] 3840x2160</b>	50.00p, 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, 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)
	<b>[3.3K] 3328x2496 (4:3)</b>	50.00p, 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, 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)
	<b>[FHD] 1920x1080</b>	100.00p, 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, 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) 25.00p, 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 Image Area of Video is set to APS-C.
<b>MOV / 24.00Hz / FULL (*HLG is selectable.) (*1) (*2)</b>	<b>[6K] 5952x3968 (3:2)</b>	24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[6K] 5952x3136 (17:9)</b>	24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[5.9K] 5888x3312 (16:9)</b>	24.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[C4K] 4096x2160</b>	24.00p, 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)
	<b>[4K] 3840x2160</b>	24.00p, 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)
	<b>[FHD] 1920x1080</b>	48.00p, 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 48.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

		24.00p, 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)
<b>MOV / 24.00Hz / APS-C / PIXEL/PIXEL (*HLG is selectable.) (*1) (*2)</b>	<b>[C4K] 4096x2160</b>	48.00p, 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 48.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 24.00p, 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)
	<b>[4K] 3840x2160</b>	48.00p, 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 48.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 24.00p, 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)
	<b>[3.3K] 3328x2496 (4:3)</b>	48.00p, 200Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 48.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 24.00p, 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)
	<b>[FHD] 1920x1080</b>	48.00p, 100Mbps (4:2:2 10-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 48.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 24.00p, 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)
<b>MP4 / 59.94Hz / FULL (*1)</b>	<b>[4K] 3840x2160</b>	29.97p, 72Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 23.98p, 72Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 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)
	<b>[FHD] 1920x1080</b>	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)
<b>MP4 / 59.94Hz / APS-C / PIXEL/PIXEL (*1)</b>	<b>[4K] 3840x2160</b>	59.94p, 100Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 29.97p, 72Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 23.98p, 72Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 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)
	<b>[FHD] 1920x1080</b>	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)
<b>MP4 / 50.00Hz / FULL (*1)</b>	<b>[4K] 3840x2160</b>	25.00p, 72Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable. 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
	<b>[FHD] 1920x1080</b>	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)
<b>MP4 / 50.00Hz / APS-C / PIXEL/PIXEL (*1)</b>	<b>[4K] 3840x2160</b>	50.00p, 100Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, AAC) *HLG is selectable.

25.00p, 72Mbps (4:2:0 10-bit LongGOP)\* (H.265/HEVC, AAC) \*HLG is selectable.

25.00p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)

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**[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)

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**MP4 / 24.00Hz / FULL**

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**MP4 / 24.00Hz / APS-C /  
PIXEL/PIXEL**

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## SLOW & QUICK

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**MOV / 59.94Hz / FULL (\*\*)**

**[FHD] 1920x1080**

59.94p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

29.97p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

23.98p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

\*Angle of view narrows if you select a frame rate with a number of frames 151 or more.

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**MOV / 59.94Hz / APS-C (\*\*)**

**[C4K] 4096x2160**

29.97p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

23.98p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

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**[4K] 3840x2160**

29.97p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

23.98p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

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**[FHD] 1920x1080**

59.94p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

29.97p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

23.98p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

\*Angle of view narrows if you select a frame rate with a number of frames 151 or more.

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**MOV / 50.00Hz / FULL (\*\*)**

**[FHD] 1920x1080**

50.00p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

25.00p (Maximum output of sensor is 180fps)\*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

\*Angle of view narrows if you select a frame rate with a number of frames 151 or more.

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**MOV / 50.00Hz / APS-C (\*\*)**

**[C4K] 4096x2160**

25.00p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

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**[4K] 3840x2160**

25.00p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)

	<b>[FHD] 1920x1080</b>	50.00p (Maximum output of sensor is 180fps)*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) 25.00p (Maximum output of sensor is 180fps)*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *Angle of view narrows if you select a frame rate with a number of frames 151 or more.
<b>MOV / 24.00Hz / FULL (**)</b>	<b>[FHD] 1920x1080</b>	24.00p (Maximum output of sensor is 180fps)*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *Angle of view narrows if you select a frame rate with a number of frames 151 or more.
<b>MOV / 24.00Hz / APS-C (**)</b>	<b>[C4K] 4096x2160</b>	24.00p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[4K] 3840x2160</b>	24.00p (Maximum output of sensor is 60fps), 150Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM)
	<b>[FHD] 1920x1080</b>	24.00p (Maximum output of sensor is 180fps)*, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM) *Angle of view narrows if you select a frame rate with a number of frames 151 or more.

## VIEWFINDER

<b>Type</b>	OLED Live View Finder
<b>Pixels</b>	Approx. 3.68 million dots
<b>Field of view / Magnification</b>	Approx. 100% / Approx. 0.78x with 50 mm lens at infinity; -1.0 m-1, when the aspect ratio is set to 3:2
<b>Eye point / Diopter adjustment</b>	Approx. 21 mm at infinity; -1.0 m-1 / -4.0 - +2.0 (dpt)
<b>Eye sensor</b>	Yes
<b>Display speed</b>	120fps / 60fps

## REAR MONITOR

<b>Type</b>	TFT LCD monitor with static touch control
<b>Monitor size</b>	Free-angle, 3.0-inch (7.6cm), 3:2 aspect
<b>Pixels</b>	Approx. 1.84 million dots
<b>Field of view</b>	Approx. 100%

## STATUS LCD

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## FOCUS (\*3)

Type	Phase Detection AF system / 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 detective range	EV -6 - 18 (F1.4, 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)
Others	AF-ON, AF-ON: Near Shift, AF-ON: Far Shift, Focus Limiter, Focus Peaking, 1-Area AF Moving Speed, AF Micro Adjustment, 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 Resum

## 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)* / Slow&Quick / Custom 1, 2, 3 / Intelligent Auto *The same exposure operations as P/A/S/M mode is available.
Exposure compensation	1/3 EV step ±5EV (±3EV for motion picture)
ISO sensitivity (Standard output sensitivity)	[Normal] Auto / 50* / 100-51200 / 102400* / 204800* (1/3 or 1 EV step) *Extended ISO  [V-Log] Auto / 320* / 640-51200 (1/3 or 1 EV step) *Extended ISO  [HLG] Auto / 400-51200 / 102400* / 204800* (1/3 or 1 EV step) *Extended ISO



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**Dual Native ISO** [Normal]  
Native ISO: 100, 640  
Auto: Auto / 50\* / 100-51200 / 102400\* / 204800\* \*Extended ISO  
Low: Auto / 50\* / 100-800 \*Extended ISO  
High: Auto / 320\* / 640-51200 / 102400\* / 204800\* \*Extended ISO

[V-Log]  
Native ISO: 640, 4000  
Auto: Auto / 320\* / 640-51200 \*Extended ISO  
Low: Auto / 320\* / 640-5000 \*Extended ISO  
High: Auto / 2000\* / 4000-51200 \*Extended ISO

[HLG]  
Native ISO: 400, 2500  
Auto: Auto / 400-51200 / 102400\* / 204800\* \*Extended ISO  
Low: Auto / 400-3200  
High: Auto / 2500-51200 / 102400\* / 204800\* \*Extended ISO

[Cinelike D2 / Cinelike V2]  
Native ISO: 200, 1250  
Auto: Auto / 100\* / 200-51200 / 102400\* / 204800\* \*Extended ISO  
Low: Auto / 100\* / 200-1600 \*Extended ISO  
High: Auto / 640\* / 1250-51200 / 102400\* / 204800\* \*Extended ISO

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**AE lock** Set the Fn button in custom menu to AE lock

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## IMAGE STABILIZATION SYSTEM

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B.I.S. (5-axis / 5-stop\*) \*Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm when S-R2060 is used.]

Dual I.S. 2 (6.5-stop\*) \*Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm when S-E70200 is used.]

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## WHITE BALANCE

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**White balance** AWB / AWBc / AWBw / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4

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**White balance adjustment** Blue/Amber bias, Magenta/Green bias

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**Color temperature setting** 2500-10000K in 100K

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## SHUTTER

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**Type** Focal-plane shutter

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**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), 1/8,000 - 60  
Motion picture: 1/16,000 - 1/25  
Creative Video M mode / MF mode: 1/16,000 - 1/2

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**Self timer** 10sec, 3 images / 2sec / 10sec / Custom Time

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<b>Remote control</b>	Remote control by DMW-RS2 (sold separately)
<b>Silent mode / Shutter type</b>	Yes / Yes (Auto / Mechanical / Electronic front curtain / Electronic / Electronic+NR)

## BRACKET

<b>AE bracket</b>	3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single/burst
<b>Aperture bracket</b>	3, 5 or all positions
<b>Focus bracket</b>	1 to 999 images, focus steps can be set in 10 levels
<b>White balance bracket</b>	3 images in blue/amber axis or in magenta/green axis, color temperature setting

## BURST SHOOTING

<b>Burst speed</b>	<b>Mechanical shutter / Electronic front curtain shutter</b>	H: 9 frames/sec (AFS/MF), 7 frames/sec (AFC) (with Live View) M: 5 frames/sec (AFS/MF) (with Live View), 5 frames/sec (AFC) (with Live View) L: 2 frames/sec (AFS/AFC/MF) (with Live View)
	<b>Electronic shutter</b>	SH30: 30 frames/sec (AFS/AFC/MF) H: 9 frames/sec (AFS/MF), 8 frames/sec (AFC) (with Live View) M: 5 frames/sec (AFS/MF) (with Live View), 5 frames/sec (AFC) (with Live View) L: 2 frames/sec (AFS/AFC/MF) (with Live View)
<b>Number of recordable images</b>	H/M/L* RAW+JPEG: More than 200 images RAW: More than 200 images JPEG: More than 300 images *Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic. *When using a card with SD Speed Class with "UHS-II UHS Speed Class 3 (U3)".  SH RAW / RAW+JPEG / JPEG: 200 images	

## FLASH

<b>Flash type</b>	TTL External Flash (sold separately)
<b>Synchronization speed</b>	Less than 1/250 second *The guide number decreases at 1/250 second. Only when set to M mode or S mode.
<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 only.
<b>Flash synchronization</b>	1st Curtain Sync, 2nd Curtain Sync.
<b>Flash output adjustment</b>	1/3EV step ±3EV

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<b>Wireless control</b>	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch
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## EXTRA TELE CONVERSION

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2.0x (EX S) (When using full-frame lenses), 1.9x (EX S) (When using APS-C / Super 35mm lenses), 1.4x (EX M) \*Only for still image recording.

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## COLOR SETTINGS

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<b>Photo Style</b>	<b>Photo Style</b>	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 / REAL TIME LUT / Like2100 (HLG) / Like2100 (HLG) Full Range* / My Photo Style 1-4 (5-10)* *Set to ON from Show/Hide Photo Style to select.
	<b>Picture adjustment</b>	Contrast / Highlight / Shadow / Saturation / Color Tone / Hue / Filter Effect / Grain Effect / Color Noise / Sharpness / Noise Reduction / ISO / WB / LUT *Adjustable settings vary depending on the Photo Style mode.
<b>Filter</b>		Expressive / Retro / Old Days / High Key / Low Key / Sepia / Cross Process / Bleach Bypass
<b>LUT Library</b>		Vlog_709 / Set 1-10 *REAL TIME LUT in Photo Style, Apply LUT in Fn button, Apply LUT in RAW Processing, LUT View Assist in V-Log View Assist, LUT can be applied from these settings.

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## MOTION PICTURE FUNCTION

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<b>Time lapse shot</b>	Yes
<b>Stop motion animation</b>	Yes
<b>Live cropping</b>	Yes (Supports cropping from 5.9K (FULL) 30p/25p/24p video to 4K/FHD sizes)
<b>SS/Gain operation</b>	Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB
<b>Luminance level</b>	8-bit: 0-255 / 16-235 / 16-255 10-bit: 0-1023 / 64-940 / 64-1023
<b>Synchro scan</b>	Yes
<b>Master pedestal level</b>	31 steps
<b>Color bars / 1kHz test tone</b>	Yes (SMPTE / EBU / ARIB) / Yes
<b>LUT view assist</b>	Supported file types: .vlt, .cube Monitor / HDMI
<b>HLG view assist</b>	Monitor (MODE1 / MODE2 / OFF) / HDMI (AUTO / MODE1 / MODE2 / OFF)

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<b>Anamorphic desqueeze display</b>	2.0x / 1.8x / 1.5x / 1.33x / 1.30x / OFF
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<b>Wave form monitor / Vectorscope</b>	Selectable
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<b>Knee control</b>	Yes (in Like709 mode)
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<b>Red REC frame indicator</b>	ON / OFF
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## VERTICAL POSITION INFORMATION

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Still image / Motion picture (ON/OFF)

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## LEVEL GAUGE

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Yes

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## FUNCTION BUTTON

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### REC

Exposure Comp. / Dual Native ISO / Sensitivity / White Balance / Photo Style / Apply LUT / Metering Mode / Aspect Ratio / Picture Quality / Picture Size / 1 Shot Spot Metering / Long Exposure NR / Min. Shutter Speed / 1 Shot RAW+JPG / i.Dynamic Range / Color Shading Compensation / Filter Effect / One Push AE / Touch AE / AWB Lock / 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) / Slow & Quick Setting / 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 / Live Cropping / Q.MENU / Rec/Playback Switch / Video Record / Video Record (Creative Video) / LVF/Monitor Switch / Operation Lock / 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 / AF Micro Adjustment / Lens Information / Destination Card Slot / Wi-Fi / Fan Mode / Save to Custom Mode / No Setting / Off (Disable Press and Hold) / Restore to Default

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### 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

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## INTERFACE

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### USB

USB Type-C (SuperSpeed USB 10Gbps (USB 3.2 Gen2))

<b>HDMI (**)</b>	<b>HDMI</b>	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.)
	<b>Monitor-through</b>	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].)
	<b>Playback</b>	59.94Hz: C4K/60p / C4K/30p / 4K/60p / 4K/30p / 1080/120p / 1080p / 1080i / 720p* / 480p* 50.00Hz: C4K/50p / C4K/25p / 4K/50p / 4K/25p / 1080/100p / 1080p / 1080i / 720p* / 576p* 24.00Hz: C4K/24p / 4K/24p / 1080p *Only for playback.
<b>Remote input</b>	φ2.5mm	
<b>Audio</b>	<b>Build-in microphone</b>	Stereo Wind Noise Canceller: OFF / Standard / High
	<b>External microphone / External audio device input</b>	φ3.5mm for external microphone / external audio device MIC (Plug-in Power) / MIC / LINE Wind Cut: OFF / Low / Standard / High *When attaching 3.5mm microphone (sold separately). Special Mic: Stereo / Shotgun *When attaching DMW-MS2 (sold separately).
	<b>XLR microphone</b>	Yes with DMW-XLR1 (sold separately)
	<b>4ch mic input</b>	Yes with DMW-XLR1 (sold separately)
	<b>Speaker</b>	Monaural
	<b>Headphone output</b>	φ3.5mm
<b>SD card slot</b>	Slot 1, 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

<b>Count up</b>	Rec Run / Free Run
<b>Time code mode</b>	Drop Frame / Non-Drop Frame (When system frequency [59.94Hz] is selected.)
<b>HDMI time code output</b>	ON / OFF

## FAN

Auto1 / Auto2 / Fast / Normal / Slow\* / OFF\*\*

\*Not selectable when the resolution is higher than C4K, or the frame rate is higher than 60p.

\*\*OFF can be set when in iA/P/A/S/M mode.

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## WIRELESS

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**Wi-Fi** 2.4GHz bands (STA/AP) (IEEE802.11b/g/n)  
5GHz bands (STA) (IEEE 802.11a/n/ac)  
Security: WPA/WPA2/WPA3

**Bluetooth** Bluetooth® v5.0 (Bluetooth Low Energy (BLE))

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## DUST AND SPLASH RESISTANT\*

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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.

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## POWER

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**Battery** Li-ion Battery Pack (7.2V, 2200mAh, 16Wh) (bundled)  
USB power supply, USB power charging, USB power delivery

**Battery life (CIPA standard)** Approx. 370 images, 1,250 images (Power Save LVF mode\*) with S-R2060  
Approx. 370 images, 1,200 images (Power Save LVF mode\*) with S-S50  
\*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)** MP4 [4K/60p]: Approx. 90 min (APS-C), MP4 [FHD/60p]: Approx. 130 min (FULL) \*When using S-R2060 / S-S50.  
When the battery is fully charged.

**Actual recordable time (Motion picture) (\*1)** MP4 [4K/60p]: Approx. 45 min (APS-C), MP4 [FHD/60p]: Approx. 65 min (FULL) \*When using S-R2060 / S-S50.  
When the battery is fully charged.

**Battery grip** DMW-BGS5 (sold separately)

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## DIMENSIONS / WEIGHT

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**Dimensions (W x H x D)** Approx. 134.3 x 102.3 x 90.1 mm / 5.29 x 4.03 x 3.55 inch (Body only, excluding protrusions)  
Approx. 134.3 x 102.3 x 157.0 mm / 5.29 x 4.03 x 6.19 inch (with S-R2060, excluding protrusions)  
Approx. 134.3 x 102.3 x 151.8 mm / 5.29 x 4.03 x 5.98 inch (with S-S50, excluding protrusions)

**Weight** Approx. 740g / 1.64 lb (Body, Hot Shoe Cover, Battery, SD Memory Card x 1) (excluding body cap)  
Approx. 657g / 1.45 lb (Body, Hot Shoe Cover) (excluding body cap)

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## OPERATING ENVIRONMENT

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**Operating temperature** 0°C to 40°C (32°F to 104°F)

**Operating humidity** 10%RH to 80%RH

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## STANDARD ACCESSORIES

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### Software

### Recording

#### 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.

[http://panasonic.jp/support/global/cs/soft/download/d\\_lumixtether.html](http://panasonic.jp/support/global/cs/soft/download/d_lumixtether.html)  
(For Windows / Mac)

#### 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.

<https://panasonic.jp/support/global/cs/dsc/> (For Android™ / iOS)

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### Playback / Editing

· 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 using computer connected to the Internet.

<http://www.isl.co.jp/SILKYPIX/english/p/> (For Windows / Mac)

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### Standard accessories

#### DC-S5M2 Kit

Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, AC Adaptor, USB Connection Cable (A-C)

#### DC-S5M2K Kit / DC-S5M2C Kit

Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Lens Cap, Lens Hood, Lens Rear Cap

#### DC-S5M2W Kit

Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Lens Cap x 2, Lens Hood x 2, Lens Rear Cap x 2

· 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.

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## Note

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(\*1) About motion picture recording

- Recording stops when the continuous recording time exceeds 30 minutes in [6K/29.97p] [6K/25.00p] [5.9K/29.97p] [5.9K/25.00p] when Thermal Management mode is set to Standard.

- 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: SD memory card with SD Speed Class with Class 10 or Video Speed Class 10 or higher

Motion pictures with 200Mbps or less: SD memory card with UHS-I / UHS-II UHS Speed Class 3 (U3) or Video Speed Class 30 or higher

- 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]: 192GB

(\*2) High-res audio is selectable only when attaching  $\phi$ 3.5mm microphone or DMW-XLR1 (sold separately).

(\*3) About AF

- 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 a Premium High Speed HDMI cable (Type A - Type A plug).

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