

Panasonic LUMIX S5D Specification

[Panasonic LUMIX S5D](#)

TYPE	Type		Digital Single Lens Mirrorless camera	
	Lens mount		L-Mount	
IMAGE SENSOR	Type		35mm full-frame (35.6mm x 23.8mm) CMOS sensor	
	Camera effective pixels / Total pixels		24.20 megapixels / 25.28 megapixels	
	AR (Anti Reflection) coating		Yes	
	Aspect ratio / Color filter		3:2 / Primary color filter	
	Dust reduction system		Image sensor shift type	
LATITUDE			14+ stops (V-Log)	
STILL IMAGE	Recording file format	Still image		JPEG (DCF, Exif 2.31), RAW, HLG Photo (CTA-2072)
		6K PHOTO** / 4K PHOTO**		6K PHOTO: MP4 (H.265/HEVC, Audio format: AAC (2ch)) 4K PHOTO: MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch)) Extracted still images: JPEG (DCF, Exif 2.31)
	Aspect ratio			4:3 / 3:2 / 16:9 / 1:1 / 65:24 / 2:1
	File size (Pixels)	When using full-frame lenses	3:2	6000x4000(L) / 4272x2848(M) / 3024x2016(S) / 12000x8000(XL)* / 8496x5664(LL)* *High Resolution Mode. 5184x3456(6K PHOTO) / 3504x2336(4K PHOTO) / 5984x4000(HLG PHOTO, Full-Res.) / 3232x2160(HLG PHOTO, 4K-Res.)
			4:3	5328x4000(L) / 3792x2848(M) / 2688x2016(S) / 10656x8000(XL)* / 7552x5664(LL)* *High Resolution Mode. 4992x3744(6K PHOTO) / 3328x2496(4K PHOTO) / 5312x3984(HLG PHOTO, Full-Res.) / 2880x2160(HLG PHOTO, 4K-Res.)
			16:9	6000x3368(L) / 4272x2400(M) / 3024x1704(S) / 12000x6736(XL)* / 8496x4784(LL)* *High Resolution Mode. 3840x2160(4K PHOTO) / 5888x3312(HLG PHOTO, Full-Res.) / 3840x2160(HLG PHOTO, 4K-Res.)
			1:1	4000x4000(L) / 2848x2848(M) / 2016x2016(S) / 8000x8000(XL)* / 5664x5664(LL)* *High Resolution Mode. 2880x2880(4K PHOTO) / 4000x4000(HLG PHOTO, Full-Res.) / 2144x2144(HLG PHOTO, 4K-Res.)
			65:24	6000x2208(L)
			2:1	6000x3000(L)
	When using APS-C/Sup er 35mm lenses		3:2	3984x2656(L) / 2880x1920(M) / 2064x1376(S) / 3504x2336(4K PHOTO)
4:3			3536x2656(L) / 2560x1920(M) / 1840x1376(S) / 3328x2496(4K PHOTO)	
16:9			3984x2240(L) / 2880x1624(M) / 1920x1080(S) / 3840x2160(4K PHOTO)	
1:1			2656x2656(L) / 1920x1920(M) / 1376x1376(S) / 2880x2880(4K PHOTO)	

	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 (Audio format: LPCM (2ch 48kHz/16-bit)) MP4: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: AAC (2ch))		
	Switch NTSC / PAL		Yes (NTSC (59.94Hz) / PAL(50.00Hz))		
	MOV**	NTSC (59.94 Hz)	Full- frame	[C4K] 4096x216 0	29.97p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
				[4K] 3840x216 0	29.97p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
				[FHD] 1920x108 0	59.94p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 29.97p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
				[C4K] 4096x216 0	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		APS-C / Pixel by Pixel	[4K] 3840x216 0	59.94p, 200Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, LPCM) *HLG is selectable. 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 29.97p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.	



		[Anamorphic 4K] 3328x2496 (4:3)	29.97p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		[FHD] 1920x1080	59.94p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 29.97p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 23.98p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
PAL (50.00 Hz)	Full-frame	[C4K] 4096x2160	25.00p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		[4K] 3840x2160	25.00p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		[FHD] 1920x1080	50.00p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 25.00p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
APS-C / Pixel by Pixel	APS-C / Pixel by Pixel	[C4K] 4096x2160	50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		[4K] 3840x2160	50.00p, 200Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, LPCM) *HLG is selectable. 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
		[Anamorphic 4K] 3328x2496 (4:3)	50.00p, 200Mbps (4:2:0 10-bit LongGOP)* (H.265/HEVC, LPCM) *HLG is selectable. 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) 25.00p, 150Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.

			[FHD] 1920x1080	50.00p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable. 25.00p, 100Mbps (4:2:2 10-bit LongGOP)* / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM) *HLG is selectable.
MP4**	NTSC (59.94 Hz)	Full-frame	[4K] 3840x2160	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)
			[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)
		APS-C / Pixel by Pixel	[4K] 3840x2160	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)
			[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)
	PAL (50.00 Hz)	Full-frame	[4K] 3840x2160	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)
			[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)
		APS-C / Pixel by Pixel	[4K] 3840x2160	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)
			[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)



				[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)
HDMI RAW DATA OUTPUT	Compatible external devices			ATOMOS Ninja V 4K HDR Monitor-Recorder (AtomosOS 10.55 or higher) Blackmagic Video Assist 5" 12G HDR, Blackmagic Video Assist 7" 12G HDR (version 3.43 or higher) *This does not guarantee all of the capabilities that the compatible external recorder may have.	
	Rec quality	NTSC (59.94 Hz)	Full-frame	[5.9K] 5888x3312	29.97p, 12-bit (LPCM) 23.98p, 12-bit (LPCM)
			APS-C	[4K] 4128x2176 (17:9)	59.94p, 12-bit (LPCM) 29.97p, 12-bit (LPCM) 23.98p, 12-bit (LPCM)
				[Anamorphic 3.5K] 3536x2656 (4:3)	29.97p, 12-bit (LPCM) 23.98p, 12-bit (LPCM)
	PAL (50.00 Hz)	Full-frame	[5.9K] 5888x3312	25.00p, 12-bit (LPCM)	
			APS-C	[4K] 4128x2176 (17:9)	50.00p, 12-bit (LPCM) 25.00p, 12-bit (LPCM)
				[Anamorphic 3.5K] 3536x2656 (4:3)	50.00p, 12-bit (LPCM) 25.00p, 12-bit (LPCM)
Audio format			LPCM (2ch 48kHz/16-bit)		
SLOW & QUICK	MP4**	NTSC (59.94 Hz)	Full-frame	[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) 1, 2, 5, 10, 15, 30, 60, 100, 120, 150*, 180* fps *Angle of view narrows if you select a frame rate with a number of frames 180. The AF mode switches to MF when the frame rate is set to of 150 fps or more.
			APS-C / Pixel by Pixel	[4K] 3840x2160	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) 1, 2, 5, 10, 15, 30, 60 fps
		PAL (50.00 Hz)	Full-frame	[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) 1, 2, 5, 10, 15, 30, 60, 100, 120, 150*, 180* fps *Angle of view narrows if you select a frame rate with a number of frames 180. The AF mode switches to MF when the frame rate is set to of 150 fps or more.

		APS-C / Pixel by Pixel	[4K] 3840x2160	25.00p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC) 1, 2, 5, 10, 15, 30, 60 fps
VIEWFINDER	Type	OLED Live View Finder		
	Pixels	Approx. 2.36 million dots		
	Field of view / Magnification	Approx. 100% / Approx. 0.74x with 50 mm lens at infinity; -1.0 m ⁻¹ , when the aspect ratio is set to 3:2		
	Eye point / Diopter adjustment	Approx. 20 mm at infinity; -1.0 m ⁻¹ / -4.0 - +4.0 (dpt)		
	Eye sensor	Yes		
	Display speed	120fps / 60fps		
	Display time lag	Approx. 0.005sec		
REAR MONITOR	Type	TFT LCD monitor with static touch control		
	Monitor size	Free-angle, 3.0-inch (about 7.62cm), 3:2 aspect		
	Pixels	Approx. 1.84 million dots		
	Field of view	Approx. 100%		
FOCUS	Type	Contrast AF system		
	DFD technology	Yes		
	Focus mode	AFS (Single) / AFC (Continuous) / MF		
	AF mode	Auto Detection (Face, Eye, Body, Animal) / Tracking / 225-Area / Zone (Vertical/Horizontal) / Zone (Square) / Zone (Oval) / 1-Area+* / 1-Area* / Pinpoint / Custom 1, 2, 3 (Full area touch is available) (Scalable AF frame size and flexible AF position) *Human/Animal Detection AF can be set ON or OFF.		
	AF detective range	EV -6 - 20 (F1.4, ISO100 equivalent, AFS)		
	AF custom setting	AF Sensitivity, AF Area Switching Sensitivity, Moving Object Prediction		
	AF assist lamp	Yes		
	AF lock	Set the Fn button in custom menu to AF lock		
	Post Focus / Focus Stacking	Yes / Yes		
	Others	AF-ON, AF-ON: Near Shift, AF-ON: Far Shift, Shutter AF, Half Press Release, Focus/Shutter Priority, Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, AF-Point Scope Setting, AF+MF, MF Guide, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter, Focus Switching for Vert/Hor, Focus Ring Lock, Show/Hide AF Mode, 1-Area AF Moving Speed, Loop Movement Focus Frame, AFC Start Point (225-Area), Lens Focus Resume, Focus Ring Control		
	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.		

ISO sensitivity (Standard output sensitivity)		Auto / 50* / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200 / 102400* / 204800* (Changeable to 1/3 EV step) *Extended ISO	
Dual Native ISO		[Normal] Native ISO: 100, 640 Auto: Auto / 50* / 100-51200 / 102400* / 204800* *Extended ISO [V-Log] Native ISO: 640, 4000 Auto: Auto / 320* / 640-51200 *Extended ISO [HLG] Native ISO: 400, 2500 Auto: Auto / 400-51200 / 102400* / 204800* *Extended ISO [Cinelike D2 / Cinelike V2] Native ISO: 200, 1250 Auto: Auto / 100* / 200-51200 / 102400* / 204800* *Extended ISO	
Exposure compensation		1/3 EV step ± 5 EV (± 3 EV for motion picture)	
AE lock		Set the Fn button in custom menu to AE lock	
IMAGE STABILIZATION SYSTEM		Image sensor shift type (5-axis / 5.0-stop*) *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm when S-R2060 is used.] Dual I.S. (6.5-stop* Dual I.S. 2 compatible) *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm when S-E70200 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), 1/8,000 - 60 Motion picture: 1/16,000 - 1/25 Creative Video M mode / MF mode: 1/16,000 - 1/2	
	Self timer	10sec, 3 images / 2sec / 10sec	
	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 in 1 EV step	
	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	AFS/MF: H: 7 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View) AFC: H: 5 frames/sec (with Live View), M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)
		Electronic shutter	AFS/MF: H: 7 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)

		AFC: H: 5 frames/sec (with Live View), M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	Number of recordable images	RAW / RAW+JPEG: More than 24 images JPEG: More than 999 images (When using a card with SD Speed Class with "UHS-II UHS Speed Class 3 (U3)" inserted into card slot 1.) *-When recording is performed under the test conditions specified by Panasonic.
6K PHOTO** / 4K PHOTO**	Burst speed	6K PHOTO: 30 frames/sec 4K PHOTO: 60 frames/sec, 30 frames/sec
	Exif information	Yes (Each JPEG image cropped out of the 6K/4K burst file complies with EXIF.)
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 *The guide number decreases at 1/250 second. Only when set to M mode or S mode.
	Wireless control	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch
EXTRA TELE CONVERSION		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.
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 / Standard (HLG) / Monochrome (HLG) / Like2100 (HLG) / 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 / Monochrome / Dynamic Monochrome / Rough Monochrome* / Silky Monochrome* / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Soft Focus* / Fantasy / Star Filter* / One Point Color / Sunshine* *For photos only.
MOTION PICTURE FUNCTION	Vertical Position Information	ON / OFF
	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 display	LUT View Assist (Monitor) / LUT View Assist (HDMI)
	Time code	Count Up: Rec Run/Free Run selectable, Time Code Mode: Drop frame/Non-drop frame selectable (When NTSC (59.94Hz) is selected.)
	SS/Gain operation	Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB



	Knee control	Yes (in Like709 mode)
FUNCTION BUTTON	REC	Exposure Comp. / Sensitivity / White Balance / Photo Style / Metering Mode / Aspect Ratio / Picture Quality / Picture Size / HLG Photo / High Resolution Mode / 1 Shot Spot Metering / Long Exposure NR / Min. Shutter Speed / 1 Shot RAW+JPG / i.Dynamic Range / Filter Effect / One Push AE / Touch AE / Exposure Mode / AF Mode / AF Custom Setting(Photo) / AF Custom Setting(Video) / 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 / AF-Point Scope / Focus Area Set / Flash Mode / Flash Adjust. / Wireless Flash Setup / Drive Mode / 1 Shot "6K/4K PHOTO" / Bracketing / Silent Mode / Image Stabilizer / Shutter Type / Ex. Tele Conv. / Live View Composite / Post-Focus / Motion Pic. Rec File Format / Motion Pic. Rec Quality / Slow & Quick Setting / Time Code Display / Sound Rec Level Disp. / Sound Rec Level Adj. / Sound Rec Level Limiter / Special Mic. Directivity Adjust / Image Stabilizer / E-Stabilization (Video) / Boost I.S. (Video) / Image Area of Video / Live Cropping / Q.MENU / Rec / Playback Switch / Video Record / 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. Style / Photo/Video Preview / 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 / Focus Ring Control/ Zoom Control / Destination Card Slot / Wi-Fi / No Setting / Restore to Default
	PLAY	Magnify from AF Point / LUT View Assist (Monitor) / HLG View Assist (Monitor) / Anamorphic Desqueeze Display / RAW Processing / 6K/4K PHOTO Bulk Saving / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / Copy / Rec/Playback Switch / LVF/Monitor Switch / Video Record / Night Mode / Card Slot Change / Wi-Fi / Send Image (Smartphone) / LUT View Assist (HDMI) / HLG View Assist (HDMI) / 6K/4K Photo Play / No Setting / Off (Disable Press and Hold) / Restore to Default
LEVEL GAUGE		Yes
OSD LANGUAG E		Please refer to "OSD" Sheet
PRINT		PictBridge compatible
	USB	USB Type-C® (USB 10Gbps)

INTERFAC E	HDMI** *	Monitor-through	When a mode other than [C4K/60p]/[C4K/50p]/[4K/60p]/[4K/50p] is selected for [Rec Quality]: 4:2:2 10bit, 4:2:2 8bit, 4:2:0 8bit When [C4K/60p]/[C4K/50p]/[4K/60p]/[4K/50p] mode is selected in [Rec Quality]: 4:2:2 10bit*, 4:2:0 8bit *When 4:2:2 10bit mode is selected, it is not possible to record motion picture or still picture on the memory card in the camera unit. Info Display: ON / OFF (selectable) HLG View Assist (HDMI): AUTO / MODE1 / MODE2 / OFF (selectable)
		Playback	microHDMI TypeD / VIERA Link, Audio: Stereo NTSC (59.94Hz): Auto / C4K/60p / 4K/60p / 4K/30p / 1080p / 1080i / 720p / 480p PAL (50.00Hz): Auto / C4K/50p / 4K/50p / 4K/25p / 1080p / 1080i / 720p / 576p
	Remote input	φ2.5mm	
	External microphone / external audio device input	φ3.5mm for external microphone / external audio device MIC (Plug-in Power) / MIC / LINE is selectable. Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).	
	Headphone output	φ3.5mm	
	Microphone	Stereo, Wind Noise Canceller: OFF / Low* / Standard / High *When attaching DMW-MS2 (sold separately).	
	XLR microphone	Yes with DMW-XLR1 (sold separately)	
	Speaker	Monaural	
	SD card slot	SD Memory Card, SDHC Memory Card, SDXC Memory Card Slot 1: 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. Slot 2: Compatible with UHS-I UHS Speed Class 3 standard SDHC/SDXC Memory Cards.	
	WIRELESS	Wi-Fi	2.4GHz bands (STA/AP) (IEEE802.11b/g/n) 5GHz bands (STA) (IEEE 802.11a/n/ac) Please refer to "Wi-Fi" Sheet
Bluetooth		Bluetooth® v4.2 (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	
	Battery life (CIPA standard)	Approx. 430 images (rear monitor), 450 images (LVF), 1,500 images (Power Save LVF mode*) with S-R1840 Approx. 410 images (rear monitor), 430 images (LVF), 1,450 images (Power Save LVF mode*) with S-R28200 *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)**		MP4 [FHD/60p]: Approx. 140 min (rear monitor), 140 min (LVF) *When using S-R1840. When the battery is fully charged. MP4 [FHD/60p]: Approx. 130 min (rear monitor), 140 min (LVF) *When using S-R28200. When the battery is fully charged.
	Actual recordable time (Motion picture)**		MP4 [FHD/60p]: Approx. 70 min (APS-C, Pixel by Pixel) (rear monitor), 70 min (APS-C, Pixel by Pixel) (LVF) *When using S-R1840. When the battery is fully charged. MP4 [FHD/60p]: Approx. 65 min (APS-C, Pixel by Pixel) (rear monitor), 70 min (APS-C, Pixel by Pixel) (LVF) *When using S-R28200. When the battery is fully charged.
	Battery grip		DMW-BGS5 (sold separately)
DIMENSIONS / WEIGHT	Dimensions (W x H x D)		Approx. 132.6 x 97.1 x 81.9 mm / 5.22 x 3.82 x 3.22 inch (excluding protrusions)
	Weight		Approx. 714g / 1.58 lb (Body, Hot Shoe Cover, Battery, SD Memory Card x 1) (excluding body cap) Approx. 630g / 1.39 lb (Body, Hot Shoe Cover) (excluding body cap)
OPERATING ENVIRONMENT	Operating temperature		0°C to 40°C (32°F to 104°F)
	Operating humidity		10%RH to 80%RH
STANDARD ACCESSORIES	Software	Recording	LUMIX Tether <ul style="list-style-type: none"> This software is used to control a Panasonic digital camera from a PC. 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 (For Windows / Mac)
		Playback / Editing	<ul style="list-style-type: none"> The software to edit and playback images on computer is not bundled with this camera. To do this, PHOTOfunSTUDIO 10.1PE is available for download at Panasonic website using computer connected to the Internet. https://panasonic.jp/support/global/cs/soft/download/d_pfs1001pe.html(For Windows) 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 Adwaa's website using computer connected to the Internet. http://www.isl.co.jp/SILKYPIX/english/p/ (For Windows / Mac)
	Standard accessories		DC-S5D Kit Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack DC-S5DN Kit Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, Lens Cap, Lens Rear Cap DC-S5DH Kit Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, Lens Cap, Lens Hood, Lens Rear Cap

		<p>· The DC-S5D 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>
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