



Clifton Cameras Product Specification

Panasonic Lumix DC-GH5S Digital Camera Body Full Spec

TYPE	Type	Digital Single Lens Mirrorless camera		
Recording media	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 60 standard SDXC Memory Cards)				
Image sensor size	17.3 x 13.0 mm (in 4:3 aspect ratio)			
Lens mount	Micro Four Thirds mount			
IMAGE SENSOR	Type	Live MOS Sensor		
Total pixels	11.93 Megapixels			
Camera effective pixels	10.28 Megapixels			
Color filter	Primary color filter			
Dust reduction system	Supersonic wave filter			
IMAGE STABILIZATION SYSTEM	-			
RECORDING SYSTEM	Recording file format	Still image	JPEG (DCF, Exif 2.31), RAW (14-bit / 12-bit)	
4K PHOTO	MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch))			
Motion picture	MOV: H.264/MPEG-4 AVC (Audio format: LPCM (2ch 48kHz/16-bit, 48kHz/24-bit*, 96kHz/24-bit*)) *When attaching DMW-XLR1 (sold separately).			
MP4: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: LPCM (2ch 48kHz/16-bit), AAC (2ch))				
AVCHD Progressive, AVCHD (Audio format: Dolby Audio 2ch)				
System frequency	59.94Hz, 50.00Hz, 24.00Hz			
Aspect ratio	4:3, 3:2, 16:9, 1:1			
Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard		*RAW bit size is selectable from 14-bit or 12-bit.	
Color space	sRGB, AdobeRGB			



File size (Pixels) Still image 4:3 3680x2760(L) / 2592x1944(M) / 1824x1368(S) / 3328x2496(4K PHOTO)

3:2 3840x2560(L) / 2736x1824(M) / 1920x1280(S) / 3504x2336(4K PHOTO)

16:9 4016x2256(L) / 2816x1584(M) / 1920x1080(S) / 3840x2160(4K PHOTO)

1:1 2752x2752(L) / 1936x1936(M) / 1360x1360(S) / 2880x2880(4K PHOTO)

Motion picture MOV**

High-res audio is selectable only when using the DMW-XLR1 (sold separately). 59.94Hz [C4K] 4096x2160
59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

29.97p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio)

23.98p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

[4K] 3840x2160 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

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[Full HD] 1920x1080 59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio)

59.94p, 100Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

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50.00Hz [C4K] 4096x2160 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)



25.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM, High-Res Audio) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

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24.00Hz [C4K] 4096x2160 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM, High-Res Audio)

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MP4** 59.94Hz [C4K] 4096x2160 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM)

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23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM)



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29.97p, 72Mbps (4:2:0 10-bit LongGOP) (AAC) (HEVC, HLG recording)

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24.00p, 24Mbps (4:2:0 8-bit LongGOP) (AAC)

AVCHD Progressive**

AVCHD** 59.94Hz [Full HD] 1920x1080 59.94p, 28Mbps (LongGOP) (Dolby)

59.94i, 24Mbps (LongGOP) (Dolby) (Sensor output is 29.97fps)

59.94i, 17Mbps (LongGOP) (Dolby) (Sensor output is 59.94fps)

23.98p, 24Mbps (LongGOP) (Dolby)

50.00Hz [Full HD] 1920x1080 50.00p, 28Mbps (LongGOP) (Dolby)

50.00i, 24Mbps (LongGOP) (Dolby) (Sensor output is 25.00fps)

50.00i, 17Mbps (LongGOP) (Dolby) (Sensor output is 50.00fps)

Continuous recordable time (Motion picture)** AVCHD [FHD/60p]: Approx. 130 min (rear monitor), 130 min (LVF) with H-FS12060

AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 130 min (LVF) with H-FS12060

MP4 [4K/60p]: Approx. 120 min (rear monitor), 120 min (LVF) with H-FS12060

MP4 [4K/30p]: Approx. 120 min (rear monitor), 110 min (LVF) with H-FS12060

Actual recordable time (Motion picture)** AVCHD [FHD/60p]: Approx. 65 min (rear monitor), 65 min (LVF) with H-FS12060

AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 65 min (LVF) with H-FS12060

MP4 [4K/60p]: Approx. 60 min (rear monitor), 60 min (LVF) with H-FS12060

MP4 [4K/30p]: Approx. 60 min (rear monitor), 55 min (LVF) with H-FS12060

WIRELESS Wi-Fi Wi-Fi2.4GHz (STA/AP) (IEEE802.11b/g/n)

Wi-Fi5GHz (STA) (IEEE 802.11a/n/ac) *5GHz Wi-Fi is not available in some countries.

Please refer to "Wi-Fi" Sheet



Bluetooth Bluetooth® v4.2 (Bluetooth Low Energy (BLE))

QR code connection / Password-less connection Yes / Yes (ON / OFF selectable)

VIEWFINDER Type OLED Live View Finder (3,680k dots)

Field of view Approx. 100%

Magnification Approx. 1.52x / 0.76x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1

Eye point Approx. 21 mm from eyepiece lens

Diopter adjustment -4.0 - +3.0 (dpt)

Eye sensor Yes

Display speed 120fps / 60fps

FOCUS Type Contrast AF system

DFD technology Yes

Post Focus Yes

Focus Stacking Yes

Focus mode AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF

AF mode Face/Eye Detection / Tracking / 225-Area / Custom Multi / 1-Area / Pinpoint

(Full area touch is available) (Scalable AF frame size and flexible AF position)

AF detective range EV -5 - 18 (ISO100 equivalent)

AF assist lamp Yes

AF lock Yes (AF/AE LOCK button)

AF custom setting AF Sensitivity, AF Area Switching Sensitivity, Moving Object Prediction

Others One Shot AF, Shutter AF, Half Press Release, Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, AF+MF, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter

EXPOSURE CONTROL Light metering system 1,728-zone multi-pattern sensing system

Light metering mode Multiple / Center Weighted / Spot

Metering range EV0-18 (F2.0 lens, ISO100 equivalent)

Exposure mode Program AE, Aperture Priority AE, Shutter Priority AE, Manual



ISO sensitivity (Standard output sensitivity) Still image: Auto / Intelligent ISO / 80* / 100* / 160 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200 / 102400* / 204800* (Changeable to 1/3 EV step) *Extended ISO

Creative Video Mode: Auto / 80* / 100* / 160 / 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: 400, 2500

Auto: Auto / 80* / 100* / 160-51200 / 102400* / 204800* (VFR: Auto / 80* / 100* / 160-51200 / 102400* / 204800*)
*Extended ISO

Low: Auto / 80* / 100* / 160-800 (VFR: Auto / 80* / 100* / 160-1250) *Extended ISO

High: Auto / 800-51200 / 102400* / 204800* (VFR: Auto / 1250-51200 / 102400* / 204800*) *Extended ISO

[V-LogL]

Native ISO: 800, 5000

Auto: Auto / 320-25600 (VFR: Auto / 320-25600)

Low: Auto / 320-1600 (VFR: Auto / 320-2500)

High: Auto / 1600-25600 (VFR: Auto / 2500-25600)

[HLG]

Native ISO: 800, 5000

Auto: Auto / 320-51200 / 102400* / 204800* *Extended ISO

Low: Auto / 320-1600

High: Auto / 1600-51200 / 102400* / 204800* *Extended ISO

Exposure compensation 1/3 EV step ± 5 EV (± 3 EV for motion picture)

AE lock Yes (AF/AE LOCK button)

WHITE BALANCE White balance AWB / AWBc / 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 shutter:	1/16,000 - 1	
Motion picture:	59.94Hz: 1/16,000 - 1/30, 50.00Hz: 1/16,000 - 1/25, 23.98Hz: 1/16,000 - 1/24 (When using Synchro Scan)	
Shutter life	Approx. 200,000 images	
Self timer	10sec, 3 images / 2sec / 10sec	
Remote control	Remote control with Bulb function by DMW-RSL1 (sold separately)	
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 exposures in blue/amber axis or in magenta/green axis, color temperature setting	
BURST SHOOTING	Burst speed	[14-bit]
AFS/MF: H: 11 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-ES12060 is used.		
AFF/AFC: H: 7 frames/sec (with Live View), M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-ES12060 is used.		
[12-bit]		
AFS/MF: H: 12 frames/sec, M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-ES12060 is used.		
AFF/AFC: H: 8 frames/sec (with Live View), M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-ES12060 is used.		
Number of recordable images More than approx. 80 images (when there are RAW files with the particular speed.)		
More than approx. 600 images (when there are no RAW files and using a card with SD Speed Class with "UHS-II UHS Speed Class 3 (U3)".)		
(depending on memory card size, battery power, picture size, and compression)		
4K PHOTO**	Burst speed	60 frames/sec, 30 frames/sec
Exif information	Yes (Each JPEG image cropped out of the 4K burst file complies with EXIF.)	
Marking function	Yes (in 4K Burst (S/S) mode)	



Loop rec function Yes (in 4K Burst (S/S) mode)

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, iA+ only.

Synchronization speed Less than 1/250 second

Flash output adjustment 1/3EV step ± 3 EV

Flash synchronization 1st Curtain Sync, 2nd Curtain Sync.

Synchronization for flash dimming and exposure compensation Yes

Wireless control Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch

Flash sync socket Yes

REAR MONITOR Type TFT LCD monitor with static touch control

Monitor size Free-angle 3.2-inch (8.0cm) / 3:2 aspect

Pixels Approx. 1,620k dots

Field of view Approx. 100%

Monitor adjustment Brightness, Contrast, Saturation, Red-Green, Blue-Yellow

LIVE VIEW Digital zoom 2x, 4x

Extra Tele Conversion Still image: Max. 2x

Motion picture: 2.1x (FHD)

Other functions Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Video Guide Line, Center Marker, Highlight display (Still image / motion picture), Zebra pattern (Still image / motion picture)

DIRECTION DETECTION FUNCTION Yes

FUNCTION BUTTON REC Wi-Fi / Q.MENU / Video Record / LVF/Monitor Switch / LVF/Monitor Disp. Style / AF/AE LOCK / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Focus Area Set / Zoom Control / 1 Shot RAW+JPG / 1 Shot Spot Metering / 1 Shot 4K PHOTO / Operation Lock / Dial Operation Switch / Destination Slot / Photo Style / Filter Select / Aspect Ratio / Picture Size / Quality / RAW Bit Size / AFS/AFF / Metering Mode / Burst Rate / 4K PHOTO / Self Timer / Bracket / Highlight Shadow / i. Dynamic / i. Resolution / Min. Shtr Speed / HDR / Shutter Type / Flash Mode / Flash Adjust. / Wireless Flash Setup / Ex. Tele Conv. / Digital Zoom / Stabilizer / 4K Live Cropping / Motion Pic. Rec Format / Motion Pic. Rec Quality / Variable Frame Rate / Picture Mode in Rec. / Synchro Scan / Time Code Display / Sound Rec Level Adj. / Mic. Directivity Adjust / HLG View Assist (HDMI) / Color Bars / WFM/Vector Scope / Anamorphic Desqueeze Display / HLG View Assist / LUT Monitor Display / LUT HDMI Display / Focus Transition / Silent Mode / Peaking / Histogram / Guide Line / Video Guide Line / Zebra Pattern / Monochrome Live View / Constant Preview / Live View Boost / Rec Area / Video-Priority Display / Step Zoom / Zoom



Speed / Night Mode / Exposure Comp. / Sensitivity / White Balance / ON/OFF of each item in White Balance / ON/OFF of each item in Photo Style / AF Mode/MF / Rec/Playback Switch / Off / Restore to Default

PLAY Wi-Fi / LVF/Monitor Switch / Rec/Playback Switch / Slot Change / 4K PHOTO Play / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / RAW Processing / 4K PHOTO Bulk Saving / Copy / Anamorphic Desqueeze Display / HLG View Assist / HLG View Assist (HDMI) / LUT Monitor Display / LUT HDMI Display / Night Mode / Off / Restore to Default

PHOTO STYLE Standard / Vivid / Natural / Monochrome / L. Monochrome / Scenery / Portrait / Custom 1, 2, 3, 4 / Cinelike D / Cinelike V / Like709 / Hybrid Log Gamma* / V-LogL

*When Creative Video Mode is selected.

CREATIVE CONTROL 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. **Not available in 4:2:2 10-bit video or C4K/4K video recording.

VARIABLE FRAME RATE 59.94Hz MOV/MP4(LPCM)/FHD/59.94p

2, 30, 56, 58, 60, 62, 64, 90, 120, 150, 180, 210, 240 fps

MOV/MP4(LPCM)/4K/29.97p, MOV/MP4(LPCM)/C4K/29.97p, AVCHD/FHD/29.97p

2, 15, 26, 28, 30, 32, 34, 45, 60 fps

MOV/MP4(LPCM)/FHD/29.97p

2, 15, 26, 28, 30, 32, 34, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180, 195, 210, 225, 240 fps

MOV/MP4(LPCM)/4K/23.98p, MOV/MP4(LPCM)/C4K/23.98p, AVCHD/FHD/23.98p

2, 12, 20, 22, 24, 26, 28, 36, 48, 60 fps

MOV/MP4(LPCM)/FHD/23.98p

2, 12, 20, 22, 24, 26, 28, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240 fps

50.00Hz MOV/MP4(LPCM)/FHD/50.00p

2, 25, 46, 48, 50, 52, 54, 75, 100, 125, 150, 200, 240 fps

MOV/MP4(LPCM)/4K/25.00p, MOV/MP4(LPCM)/C4K/25.00p, AVCHD/FHD/25.00p

2, 12, 21, 23, 25, 27, 30, 37, 60 fps

MOV/MP4(LPCM)/FHD/25.00p

2, 12, 21, 23, 25, 27, 30, 37, 50, 62, 75, 87, 100, 112, 125, 137, 150, 175, 200, 225, 240 fps



24.00Hz MOV/MP4(LPCM)/C4K/24.00p, MOV/MP4(LPCM)/4K/24.00p

2, 12, 20, 22, 24, 26, 28, 36, 48, 60 fps

MOV/MP4(LPCM)/FHD/24.00p

2, 12, 20, 22, 24, 26, 28, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240 fps

ANAMORPHIC MODE Anamorphic 4K mode (4:3) MOV**

High-res audio is selectable only when using the DMW-XLR1 (sold separately). 59.94Hz 3328x2496
59.94p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM, High-Res Audio)

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29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM)

29.97p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM)

23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM)

23.98p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM)

50.00Hz 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (LPCM)

25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM)

25.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM)



24.00Hz 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) (LPCM)

24.00p, 150Mbps (4:2:2 10-bit LongGOP) (LPCM) / 100Mbps (4:2:0 8-bit LongGOP) (LPCM)

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 display LUT Monitor Display / LUT HDMI Display

Synchro scan Yes

Time code Count Up: Rec Run/Free Run selectable, Time Code Mode: Drop frame/Non-drop frame selectable (When system frequency [59.94Hz] is selected.)

SS/Gain operation Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB

Color bars / 1kHz test tone Yes (SMPTE / EBU / ARIB) / Yes

Knee control Yes (in Like709 mode)

PLAYBACK Playback mode 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All / Picture Only / Video Only, duration & effect is selectable), Playback Mode (Normal / Picture Only / Video Only), Protect, Rating, Title Edit, Face Recognition Edit, RAW Processing, 4K PHOTO Bulk Saving, 4K PHOTO Noise Reduction, Light Composition, Clear Retouch, Text Stamp, Copy, Resize, Cropping, Rotate, Video Divide, Time Lapse Video, Stop Motion Video, Rotation Display, Anamorphic Desqueeze Display, HLG View Assist, LUT Monitor Display, Picture Sort, Delete Confirmation, Creating Still Pictures from a Motion Picture

IMAGE PROTECTION / DELETE ProtectionSingle / Multi or Cancel

Delete Single / Multi / All / Except Rating

PRINT PictBridge compatible

INTERFACE USB USB Type-C, SuperSpeed USB 3.1 Gen1

HDMI*** Monitor-through 4:2:2 10-bit (When [Rec Quality] is set to [4:2:2 10bit] or when [Rec Quality] is set to [C4K/60p]/[C4K/50p]/[4K/60p]/[4K/50p] and [4K/60p Bit Mode]/[4K/50p Bit Mode] is set to [4:2:2 10bit]. When [C4K/60p]/[C4K/50p]/[4K/60p]/[4K/50p] mode is selected in [Rec Quality], it is not possible to record motion picture or still picture on the SD memory card in the camera unit.)

4:2:2 8bit (When [Rec Quality] is set to [4:2:0 8bit], except for [C4K/60p]/[C4K/50p]/[4K 60p]/[4K/50p])

4:2:0 8bit (When [Rec Quality] is set to [C4K/60p]/[C4K/50p]/[4K/60p]/[4K/50p] and [4K/60p Bit Mode]/[4K/50p Bit Mode] is set to [4:2:0 8bit].)

Auto / 4K/30p/25p / 1080p / 1080i / OFF



Information display ON/OFF (selectable)

HLG View Assist (HDMI) AUTO / MODE1 / MODE2 / OFF (selectable)

Automatic down-conversion

Playback HDMI TypeA / VIERA Link, Audio: Stereo

59.94Hz: Auto / C4K/60p / C4K/30p / 4K/60p / 4K/30p / 1080p / 1080i / 720p / 480p

50.00Hz: Auto / C4K/50p / C4K/25p / 4K/50p / 4K/25p / 1080p / 1080i / 720p / 576p

24.00Hz: Auto / C4K/24p / 4K/24p / 1080p

Audio video output No

Remote input ϕ 2.5mm for remote

External microphone / external audio device input ϕ 3.5mm 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 ϕ 3.5mm for headphone

Microphone Stereo, Wind Noise Canceller: OFF / Low* / Standard / High *When attaching DMW-MS2 (sold separately).

High-res audio recording Yes with DMW-XLR1 (sold separately)

Speaker Monaural

SD card slot Slot 1, Slot 2

TC IN/OUT Yes with BNC Converter Cable (bundled)

LANGUAGE OSD language Please refer to "OSD" Sheet

POWER Battery Li-ion Battery Pack (7.2V, 1860mAh, 14Wh) (bundled)

Battery life (CIPA standard) Approx. 440 images (rear monitor), 410 images (LVF), 1,300 images (Power Save LVF mode*) with H-FS12060

*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.

Battery grip DMW-BGGH5 (sold separately)

DIMENSIONS / WEIGHT Dimensions (W x H x D) 138.5 x 98.1 x 87.4 mm / 5.45 x 3.86 x 3.44 inch (excluding protrusions)



Weight Approx. 660g / 1.46 lb (SD card x 1, Battery, Body)

Approx. 580g / 1.28 lb (Body only)

OPERATING ENVIRONMENT Operating temperature**** -10oC to 40oC (14oF to 104oF)

Operating humidity 10%RH to 80%RH

STANDARD ACCESSORIES Software Recording LUMIX Tether

□ 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 □ The software to edit and playback images on computer is not bundled with this camera. To do this, PHOTOfunSTUDIO 10.0XE is available for download at Panasonic website using computer connected to the Internet.

http://panasonic.jp/support/global/cs/soft/download/d_pfs99pe.html (For Windows)

□ 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)

Standard accessories Battery Charger (AC Adaptor), Battery Pack, Body Cap, Hot Shoe Cover, Eye Cup, Flash Synchro Socket Cap, Cover for the Battery Grip Connector, USB Connection Cable, Shoulder Strap, Cable Holder, BNC Converter Cable

□ The DC-GH5S Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

** About motion picture recording / 4K PHOTO recording

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

- Use a card with SD Speed Class with "UHS-I / UHS-II UHS Speed Class 3 (U3)" when recording motion pictures with [MP4] in [C4K] [4K], [MOV] or [4K PHOTO].

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

- Video Speed Class 60 or higher is required for ALL-Intra 400Mbps recording. Use of SD Memory Card with Video Speed Class 60 or higher is recommended for C4K/4K ALL-Intra video recording.

- MP4 motion pictures with [MP4] in [C4K] [4K]:



- When using an SDHC memory card: You can continue recording without interruption even if the file size exceeds 4 GB, but the motion picture file will be divided and recorded/played back separately.

- When using an SDXC memory card: You can continue recording without interruption even if the file size exceeds 96 GB or 3 hours 4 minutes in length, but the motion picture file will be divided and recorded/played back separately.

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

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

- 4:2:2 10-bit recording is a recording mode for film production and the video needs to be processed on PC.

The original video cannot be played on standard TV, Blu-ray Disc™ recorder and Blu-ray Disc™ player.

It may cause problems such as freezing when played on these devices.

*** For [C4K/60p] [C4K/50p] [4K/60p] [4K/50p] video output, use an HDMI2.0 cable that has the HDMI logo on it, and that is described as "4K compatible".

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