

Panasonic LUMIX S1II Specification

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Specifications

TYPE

Type	Digital Single Lens Mirrorless camera
Lens mount	L-Mount

IMAGE SENSOR

Type	35mm full-frame (35.8mm x 23.8mm) CMOS sensor
Camera effective pixels / Total pixels	24.1 megapixels / 26.8 megapixels
AR (Anti Reflection) coating	Yes
Aspect ratio / Color filter	3:2 / Primary color filter
Dust reduction system	Image sensor shift type
Shutter Behavior at Power Off	ON / OFF

LATITUDE

15 stops (V-Log) (Dynamic Range Boost ON)

14+ stops (V-Log) (Dynamic Range Boost OFF)

STILL IMAGE

Recording file format	JPEG (DCF, Exif 3.0), RAW, HEIF
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) / 1920x1280(XS) / 12000x8000(XL)* / 8496x5664(LL)* *High Resolution mode. 4:3 5328x4000(L) / 3792x2848(M) / 2688x2016(S) / 1712x1280(XS) / 10656x8000(XL)* / 7552x5664(LL)* *High Resolution mode. 16:9 6000x3368(L) / 4272x2400(M) / 3024x1704(S) / 1920x1080(XS) / 12000x6736(XL)* / 8496x4784(LL)* *High Resolution mode. 1:1 4000x4000(L) / 2848x2848(M) / 2016x2016(S) / 1280x1280(XS) / 8000x8000(XL)* / 5664x5664(LL)* *High Resolution mode.



65:24 6000x2208(L)

2:1 6000x3000(L)

When using APS-C

3:2 3984x2656(L) / 2880x1920(M) / 2064x1376(S) / 1920x1280(XS)

4:3 3536x2656(L) / 2560x1920(M) / 1840x1376(S) / 1712x1280(XS)

16:9 3984x2240(L) / 2880x1624(M) / 2064x1160(S) / 1920x1080(XS)

1:1 2656x2656(L) / 1920x1920(M) / 1376x1376(S) / 1280x1280(XS)

Image quality Fine, Standard

HDR (HLG) Yes

Color space sRGB, AdobeRGB

MOTION PICTURE

Recording file format MOV: H.264/MPEG-4 AVC, H.265/HEVC, Apple ProRes, Apple ProRes RAW

MP4: H.264/MPEG-4 AVC, H.265/HEVC

Audio format 4ch Audio Recording: OFF MOV

Linear format: LPCM (2ch stereo 48kHz/24-bit, 96kHz/24-bit*)

Float format**: LPCM (2ch stereo 48kHz/32-bit, 96kHz/32-bit)

*When attaching Φ 3.5mm microphone or DMW-XLR2 (sold separately).

**When attaching DMW-XLR2 (sold separately).

MP4

Linear format: AAC (2ch stereo 48kHz/16-bit)

4ch Audio Recording: XLR* MOV

Linear format: LPCM (4ch monaural 48kHz/24-bit)

Float format: LPCM (4ch monaural 48kHz/32-bit)

*When attaching DMW-XLR2 (sold separately).

4ch Audio Recording: XLR*+Camera MOV

Linear format: LPCM (4ch monaural 48kHz/24-bit, 96kHz/24-bit**)

*When attaching DMW-XLR2 (sold separately). **When attaching Φ 3.5mm microphone or DMW-XLR2 (sold separately).

System frequency 59.94Hz / 50.00Hz / 24.00Hz



Image area of video	Full / APS-C / PIXEL/PIXEL
Log recording	V-Log, ARRI LogC3* *Upgrade Software Key (DMW-SFU3A) is required.
Proxy	ON / OFF
	Proxy Rec Quality: H / M / L
	Real Time LUT (Proxy): ON / OFF
	*When the following functions are being used, proxy recording is not available: [MP4], [Rec Quality] exceeding a resolution of C4K, [Rec Quality] with [4:3] or [3:2] aspect ratio, [Rec Quality] with a high frame rate video, and [Streaming].

HDMI RAW DATA OUTPUT

Compatible external devices	Blackmagic Video Assist 5" 12G HDR, Blackmagic Video Assist 7" 12G HDR *DaVinci Resolve or DaVinci Resolve Studio is required to play back and DaVinci Resolve Studio to edit Blackmagic RAW data. *Please refer to the Blackmagic Design website for the information on the corresponding firmware version of Blackmagic Video Assist 5" 12G HDR and Blackmagic Video Assist 7" 12G HDR. *All functions may not be available depending on the situation. *When recording in C4K 120p/100p, 4.8K 60p/50p or 5.7K 60p/50p, constant bitrate 5:1 or less is recommended for SSD recording and 8:1 or less for SD card recording. ATOMOS devices "Ninja V" / "Ninja V+" / "Ninja" / "Ninja Ultra" / "Shogun" / "Shogun Ultra" / "Shogun Connect" *All functions may not be available depending on the situation. *Please check here for compatible firmware versions of external recorders. https://panasonic.jp/support/global/cs/dsc/connect/index.html *"Ninja V" "Ninja" "Shogun" does not support some RAW video data. *Software that supports Apple ProRes RAW is required to edit RAW video recorded. *A LUT (Lookup table) exclusively designed for RAW video is available on the following customer support website to make the same color grading as V-Log/V-Gamut. https://panasonic.jp/support/global/cs/dsc/download/lut/s1h_raw_lut/
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EXTERNAL USB-SSD RECORDING

Yes (ON / OFF)

STREAMING

Wifi	Protocol	RTMPS
	59.94Hz	[FHD] 1920x1080 59.94p, 8Mbps (H.264)
		29.97p, 6Mbps / 3Mbps (H.264)
		[HD] 1280x720 59.94p, 6Mbps (H.264)
		29.97p, 4Mbps (H.264)
	50.00Hz	[FHD] 1920x1080 50.00p, 8Mbps (H.264)
		25.00p, 6Mbps / 3Mbps (H.264)
		[HD] 1280x720 50.00p, 6Mbps (H.264)
		25.00p, 4Mbps (H.264)
	Synchronization speed	Less than 1/250 second *The guide number decreases at 1/250 second. Only when set to M mode or S mode.
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 output adjustment	1/3EV step ±3EV	
Flash synchronization	1st Curtain Sync2nd Curtain Sync.	
Wireless control	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch	
USB tethering	Protocol	RTMPS
	59.94Hz	[4K] 3840x2160 29.97p, 12.5Mbps (H.264)
		[FHD] 1920x1080 59.94p, 16Mbps / 8Mbps (H.264)
		29.97p, 6Mbps / 3Mbps (H.264)
		[HD] 1280x720 59.94p, 6Mbps (H.264)
		29.97p, 4Mbps (H.264)
	50.00Hz	[4K] 3840x2160 25.00, 12.5Mbps (H.264)
		[FHD] 1920x1080 50.00p, 16Mbps / 8Mbps (H.264)
		25.00p, 6Mbps / 3Mbps (H.264)



[HD] 1280x720 50.00p, 6Mbps (H.264)

25.00p, 4Mbps (H.264)

VIEWFINDER

Type	OLED Live View Finder
Pixels	Approx. 5.76 million dots
Field of view / Magnification	Approx. 100% / Approx. 0.78x with 50 mm lens at infinity; -1.0 m-1, when the aspect ratio is set to 3:2
Eye point / Diopter adjustment	Approx. 21 mm at infinity; -1.0 m-1 / -4.0 - +2.0 (dpt)
Eye sensor	Yes
Display speed	120fps* / 60fps *During live view in photo recording mode.

REAR MONITOR

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

FOCUS (*5)

Type	Phase Detection AF system (779-point) / Contrast AF system (315-area)
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 / Animal / Car / Motorcycle/Bike / Train / Airplane. Except when Pinpoint is set. Target Parts can also be 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) Direction of ring rotation: Forward and reverse selectable



Others AF-ON, AF-ON: Near Shift, AF-ON: Far Shift, Focus Limiter, Focus Peaking, Focus Frame Moving Speed, 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, AF-Point Scope, Shutter AF, Half Press Shutter, Quick AF, Eye Sensor AF, Loop Focus Frame, Enlarged Live Display (Video), AFS Behavior in Video Mode, Touch Shutter, Touch AF/AE Function, Touch Pad AF, Lens Focus Resume, AF Micro Adjustment

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)	
Recording mode	Mode dial	Program AE (P) / Aperture Priority AE (A) / Shutter Priority AE (S) / Manual Exposure (M) / Custom 1, 2, 3, 4, 5 / Intelligent Auto
	Photo/Video/S&Q switch	Photo Mode / Video Mode / Slow&Quick Mode
	Custom mode	The settings can be registered for each of the photo, video, and S&Q modes.
Exposure compensation	1/3 EV step ± 5 EV (± 3 EV for motion picture)	
ISO sensitivity (Standard output sensitivity)	Still image	[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
	Motion picture	[Normal]
		When Dynamic Range Boost OFF: Auto / 50* / 100-51200 / 102400* / 204800* (1/3 or 1 EV step) When Dynamic Range Boost ON: Auto / 50* / 100-25600 (1/3 or 1 EV step) *Extended ISO
		*Extended ISO
		[V-Log]
		When Dynamic Range Boost OFF: Auto / 320* / 640-51200 (1/3 or 1 EV step) When Dynamic Range Boost ON: Auto / 500* / 1000-25600 (1/3 or 1 EV step) *Extended ISO
		*Extended ISO
		[HLG]
		When Dynamic Range Boost OFF: Auto / 400-51200 / 102400* / 204800* (1/3 or 1 EV



step) When Dynamic Range Boost ON: Auto / 400-25600 (1/3 or 1 EV step) *Extended ISO

Dual Native ISO

[Normal]

Auto (Base ISO 100 / 800): Auto / 50* / 100-51200 / 102400* / 204800* Low (Base ISO 100): Auto / 50* / 100-800 *Extended ISO High (Base ISO 800): Auto / 400* / 800-51200 / 102400* / 204800* *Extended ISO *Extended ISO

[V-Log]

Auto (Base ISO 640 / 5000): Auto / 320* / 640-51200 Low (Base ISO 640): Auto / 320* / 640-5000 High (Base 5000): Auto / 2500* / 5000-51200 *Extended ISO *Extended ISO *Extended ISO

[HLG]

Auto (Base ISO 400 / 3200): Auto / 400-51200 / 102400* / 204800* Low (Base ISO 400): Auto / 400-3200 High (Base ISO 3200): Auto / 3200-51200 / 102400* / 204800* *Extended ISO *Extended ISO

[Cinelike A2 / Cinelike D2 / Cinelike V2]

Auto (Base ISO 200 / 1600): Auto / 100* / 200-51200 / 102400* / 204800* Low (Base ISO 200): Auto / 100* / 200-1600 *Extended ISO High (Base ISO 1600): Auto / 800* / 1600-51200 / 102400* / 204800* *Extended ISO *Extended ISO

Synchro scan

Still image / Motion picture

AE lock

Set the Fn button in custom menu to AE lock

IMAGE STABILIZATION SYSTEM

B.I.S

5-axis

Center: 8.0-stop, Periphery: 7.0-stop

*Based on the CIPA 2024 standard

[Yaw/Pitch/Roll direction: focusing distance f=60mm when S-R2060 is used.]

Dual I.S 2

5-axis

Center: 7.0-stop, Periphery: 7.0-stop

*Based on the CIPA 2024 standard [Yaw/Pitch/Roll direction: focusing distance f=105mm when S-R24105 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

AI-AWB can be set when RAW processing.

White balance adjustment

Blue/Amber bias, Magenta/Green bias



Color temperature setting 2500-10000K in 100K

SHUTTER

Type	Focal-plane shutter
Silent mode / Shutter type	Yes / Yes (Auto / Mechanical / Electronic front curtain / Electronic / Electronic+NR)
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), 1/16,000 - 60 Motion picture: 1/16,000 - 1/25* (Dynamic Range Boost OFF) Motion picture: 1/6,400 - 1/25* (Dynamic Range Boost ON) Motion picture M mode / MF mode: 1/16,000 - 1/25* (Dynamic Range Boost OFF) Motion picture M mode / MF mode: 1/6,400 - 1/25* (Dynamic Range Boost ON) *Can be set up to 1/2 of a second when exposure is M and focus mode is MF in video mode.
Self timer	10sec, 3 images / 2sec / 10sec / Custom Time
Remote control	Remote control by DMW-RS2 (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
Focus bracket	Yes
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 H Image Priority: 8 frames/sec (AFS/MF), 7 frames/sec (AFC) (with Live View) H Speed Priority: 10 frames/sec (AFS/MF), 8 frames/sec (AFC) (with Live View) H+ Image Priority: 8 frames/sec (AFC) H+ Speed Priority: 10 frames/sec (AFC)
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M: 5 frames/sec (AFS/AFC/MF) (with Live View)

L: 2 frames/sec (AFS/AFC/MF) (with Live View)

Electronic shutter

SH Image Priority: 60 frames/sec (AFS/AFC/MF)

SH Speed Priority: 70 frames/sec (AFS/AFC/MF)

SH PRE Image Priority: 60 frames/sec (AFS/AFC/MF)

SH PRE Speed Priority: 70 frames/sec (AFS/AFC/MF)

H: 10 frames/sec (AFS/MF), 8 frames/sec (AFC) (with Live View)

H+ Image Priority: 9 frames/sec (AFC)

H+ Speed Priority: 10 frames/sec (AFC)

M: 5 frames/sec (AFS/AFC/MF) (with Live View)

L: 2 frames/sec (AFS/AFC/MF) (with Live View)

Number of recordable images

H/H+/M/L*

RAW+JPEG: More than 200 images

RAW: More than 200 images

JPEG: More than 300 images

RAW+HEIF: More than 160 images

HEIF: More than 180 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: 180 images

RAW+HEIF / HEIF: 170 images

FLASH

Flash type

Sold separately WLP

COLOUR SETTINGS

Photo Style	Standard / Vivid / Natural / L. Classic Neo / Flat / Landscape / Portrait / Monochrome / L. Monochrome / L. Monochrome D / L. Monochrome S / LEICA Monochrome / Cinelike A2 / Cinelike D2 / Cinelike V2 / Like709 / V-Log / ARRI LogC3* / Standard (HLG)** / Monochrome (HLG)** / REAL TIME LUT / Like2100 (HLG) / Like2100 (HLG) Full Range*** / My Photo Style 1-4 (5-10)*** *Upgrade Software Key (DMW-SFU3A) is required. **This can be selected when HEIF format is set to HDR(HLG). ***Set to ON from Show/Hide Photo Style to select.
Picture Adjustment	Contrast / Highlight / Shadow / Saturation / Color Tone / Hue / Filter Effect / Grain Effect / Color Noise / Sharpness / Noise Reduction / Dual Native ISO / ISO / WB / LUT / LUT 1 / LUT 2 / LUT Opacity / LUT 1 Opacity / LUT 2 Opacity *Adjustable settings vary depending on the Photo Style mode, whether a LUT is applied, and the base Photo Style of the applied LUT.
Filter	Expressive / Retro / Old Days / High Key / Low Key / Sepia / Cross Process / Bleach Bypass
LUT Library	Supported file types: .vlt, .cube Vlog_709 / Set 1-39 (Set 1-3: Sample LUT) *REAL TIME LUT in Photo Style, Apply LUT in Fn button, Apply LUT in RAW Processing, LUT View Assist in Log View Assist, LUT can be applied from these settings.

ZOOM FUNCTION

Hybrid Zoom	Still image / Motion picture
Crop Zoom	Still image / Motion picture

MOTION PICUTRE FUNCTION

Time lapse shot	Yes
Stop motion animation	Yes
Live cropping	Yes
SS/Gain operation	Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB
Luminance level	8-bit: 0-255 / 16-235 / 16-255 10-bit: 0-1023 / 64-940 / 64-1023
Master pedestal level	31 steps
Color bars / Test tone	Yes (SMPTE / EBU / ARIB) / Yes
LUT view assist	Monitor / HDMI



HLG view assist	Monitor (MODE1 / MODE2 / OFF) / HDMI (AUTO / MODE1 / MODE2 / OFF)
Anamorphic desqueeze display	2.0x / 1.8x / 1.5x / 1.33x / 1.30x / OFF
False Color	Yes
Wave form monitor / Vectorscope	Selectable
Knee control	Yes (in Like709 mode)
Other functions	Red REC Frame Indicator, Streaming Blue Frame Indicator

VERTICAL POSITION INFORMATION

Still image / Motion Picture (ON ? OFF)

LEVEL GAUGE

Yes

FUNCTION BUTTON

REC	Exposure Comp. / Dual Native ISO Setting / Dynamic Range Boost / Sensitivity / White Balance / Photo Style / Apply LUT / REAL TIME LUT / Metering Mode / Aspect Ratio / Rec. File Format (Photo) / Switch JPEG/HEIF / JPEG/HEIF Picture Quality / HEIF Format / Picture Size / 1 Shot Spot Metering / Long Exposure NR / Min. Shutter Speed / 1 Shot RAW+JPG/1 Shot RAW+HEIF / i.Dynamic Range / Color Shading Compensation / Filter Effect / One Push AE / Touch AE / AWB Lock / Exposure Control (Photo Mode) / Exposure Control (Video Mode) / Synchro Scan (Photo) / Synchro Scan (Video) / 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 / Focus Frame 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 / Enlarged Live Display (Video) / Flash Mode / Flash Adjust. / Wireless Flash Setup / Drive Mode Setting / Bracketing / Silent Mode / Image Stabilizer / Shutter Type / Hybrid Zoom (Photo) / Crop Zoom / Live View Composite / Rec. File Format (Video) / Rec Quality / Rec Quality (My List) / Proxy Recording / 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 Audio Recording / XLR Mic Adaptor Setting / Sound Monitoring Channel / Image Stabilizer / E-Stabilization (Video) / Boost I.S. (Video) / Image Area of Video / Hybrid Zoom (Video) / Crop Zoom / Focus Transition / Live Cropping / Live Cropping Settings / Q.MENU / Rec/Playback Switch / Video Record / LVF/Monitor Switch / Dial Operation Switch / Preview / Preview Aperture Effect / Constant Preview / Level Gauge / Histogram / Luminance Spot Meter / Frame Marker / Photo Grid Line / Live View Boost / Monochrome Live View / Night Mode / LVF/Monitor Disp. Set / Image Flip (Monitor) / Zebra Pattern / LUT View Assist (Monitor) / LUT View Assist (HDMI) / LUT Select (LUT View Assist) / HLG View Assist (Monitor) / HLG View Assist (HDMI) / Sheer Overlay / I.S. Status Scope / False Color / WFM/Vector Scope / Anamorphic Desqueeze Display / Color Bars / Focus Ring Control / AF Micro Adjustment / Lens Information / Destination Card Slot / Streaming / Wi-Fi / Fan Mode / Save to Custom Mode / No Setting / Off (Disable Press and Hold) / Same Setting as Photo Mode / Restore to Default
PLAY	Magnify from AF Point / LUT View Assist (Monitor) / HLG View Assist (Monitor) / Anamorphic Desqueeze Display / RAW Processing / HEIF to JPEG Conversion / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / Copy / Rec/Playback Switch / LVF/Monitor Switch / Video Record / Night Mode / Card Slot Change / Sound Monitoring Channel (Play) / Wi-Fi / Fan Mode / Send Image (Smartphone) / Send Images to Frame.io / LUT View Assist (HDMI) / HLG View Assist (HDMI) / No Setting / Off (Disable Press and Hold) / Restore to Default



OSD LANGUAGE

Please refer to "OSD" Sheet

INTERFACE

USB		USB Type-C® (USB 10Gbps)
HDMI (*6)	HDMI	HDMI TypeA
		Audio: ON / OFF, MP4: 2ch, MOV: 2ch (When [4ch Mic Input] is set to OFF.), 4ch (When [4ch Mic Input] is set to ON.)
	Monitor-through	4:2:2 10bit (When [Rec Quality] is set to [4:2:2 10bit] or [4:2:0 10bit].) 4:2:2 8bit (When [Rec Quality] is set to [4:2:0 8bit].) Down Convert: Auto / C4K/4K / 1080p / 1080i / OFF
	Playback	59.94Hz: C4K/120p / C4K/60p / C4K/30p / 4K/120p / 4K/60p / 4K/30p / 1080/120p / 1080p / 1080i / 720p* / 480p* 50.00Hz: C4K/100p / C4K/50p / C4K/25p / 4K/100p / 4K/50p / 4K/25p / 1080/100p / 1080p / 1080i / 720p* / 576p* 24.00Hz: C4K/120p / C4K/24p / 4K/120p / 4K/24p / 1080/120p / 1080p *Only for playback.
Remote input	φ2.5mm	
Audio	Build-in microphone	Stereo Wind Noise Canceller: OFF / Standard / High
	External microphone	φ3.5mm for external microphone / external audio device
	/External audio device input	MIC (Plug-in Power) / MIC / LINE Wind Cut: OFF / Low / Standard / High Special Mic: Stereo / Shotgun *When attaching 3.5mm microphone (sold separately). *When attaching DMW-MS2 (sold separately).
	XLR microphone	Yes with DMW-XLR2 (sold separately)
	4ch mic input	Yes with DMW-XLR2 (sold separately)
	Speaker	Monaural
	Headphone output	φ3.5mm
Card slot	Slot 1: CFexpress Type B Card	



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

Count up	Rec Run / Free Run
Time code mode	Drop Frame / Non-Drop Frame (When system frequency [59.94Hz] is selected)
HDMI time code output	ON / OFF
External TC setting	TX Synchronization via Bluetooth

FAN

Auto1 / Auto2 / Fast / Normal / Slow* / OFF** *SLOW setting cannot be used depending on the video recording quality. **OFF can not be set when in Video mode.

LAMP

Tally Lamp (front/rear) / Card Access Light / Charging Light/Network Connection Light

WIRELESS

Wifi	2.4GHz bands (STA/AP) (IEEE802.11b/g/n)
	5GHz bands (STA/AP) (IEEE 802.11a/n/ac)
	Security: WPA/WPA2/WPA3
	Please refer to "Wi-Fi" Sheet
Bluetooth	Bluetooth® v5.0 (Bluetooth Low Energy (BLE))

DUST AND SPLASH RESISTANT*

Yes.

*Dust and Splash Resistant does not guarantee that damage will not occur if this camera is subjected to direct contact with dust and water.

POWER

Battery

Battery life (CIPA standard)	When using CFexpress Card: Approx. 350 images (rear monitor), 310 images (LVF), 1,000 images (Power Save LVF mode*) with S-R24105 / DMW-BLK22
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*Using a Nextorage CFexpress Type B card. Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 1 sec.



When using SD memory card: Approx. 360 images (rear monitor), 320 images (LVF), 1,150 images (Power Save LVF mode*) with S-R24105 / DMW-BLK22

*Using a Nextorage SDXC memory card. Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 1 sec.

Continuous recordable time (Motion picture) (*1) When using CFexpress Card: MP4 [4K/60p (FULL)]: Approx. 90 min with S-R24105

MP4 [FHD/30p (FULL)]: Approx. 120 min with S-R24105

When using SD memory card: MP4 [4K/60p (FULL)]: Approx. 90 min with S-R24105

MP4 [FHD/30p (FULL)]: Approx. 130 min with S-R24105

Actual recordable time (Motion picture) (*1) When using CFexpress Card: MP4 [4K/60p (FULL)]: Approx. 45 min with S-R24105

MP4 [FHD/30p (FULL)]: Approx. 60 min with S-R24105

When using SD memory card: MP4 [4K/60p (FULL)]: Approx. 45 min with S-R24105

MP4 [FHD/30p (FULL)]: Approx. 65 min with S-R24105

Battery Grip DMW-BG2 (sold separately)

DIMENSIONS / WEIGHT

Dimensions (W x H x D) Approx. 134.3 x 102.3 x 91.8 mm / 5.29 x 4.03 x 3.61 inch (Body only, excluding protrusions)

Approx. 134.3 x 102.3 x 187.8 mm / 5.29 x 4.03 x 7.40 inch (with S-R24105, excluding protrusions)

Weight Approx. 800g / 1.75 lb (Body, Hot Shoe Cover, Battery, SD Memory Card x 1) (excluding body cap)

Approx. 718g / 1.57 lb (Body, Hot Shoe Cover) (excluding body cap)

OPERATING ENVIRONMENT

Operating temperature -10°C to 40°C (14°F to 104°F)

· The performance of the battery (number of pictures that can be taken/available recording time) may decrease temporarily at temperatures between -10°C to 0°C (14°F to 32°F).

· When using in low temperatures (-10°C to 0°C (14°F to 32°F)), attach a Panasonic lens with a minimum recommended operating temperature of -10°C (14°F).

Operating humidity 10%RH to 80%RH



STANDARD ACCESSORIES

Software	LUMIX Lab / LUMIX Flow · 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) 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 (For Windows / Mac) · 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-S1M2 Kit Battery Pack, Battery Charger, Shoulder Strap, Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector DC-S1M2M Kit Battery Pack, Battery Charger, Shoulder Strap, Body Cap, Hot Shoe Cover, Cover for the Battery Grip Connector, Lens Cap, Lens Hood, Lens Rear Cap · The Operating Instructions for advanced features is available for download at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

(*1) About motion picture recording

- The cards that can be used for recording vary depending on the motion pictures bit rate and format type.

Motion pictures with 72Mbps or less: CFexpress card, SD memory card with SD Speed Class with Class 10 or Video Speed Class 10 or higher

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

Motion pictures with 400Mbps or less: CFexpress card, SD memory card with Video Speed Class 60 or higher

Motion pictures with 600Mbps or less: CFexpress card, SD memory card with Video Speed Class 90

Motion pictures with 800Mbps or more, S&Q video with ALL-Intra, ProRes in 3.3K or higher resolution, or ProRes in FHD at 100p or more: CFexpress card

- A new file will be created to continue recording if the continuous recording time exceeds the following conditions.

Motion pictures with less than 72Mbps: 30 minutes

Motion pictures with 72Mbps or more: 3 hours 4 minutes

- A new file will be created to continue recording if the file size exceeds the following conditions.



[MP4] in [FHD]: 4GB

[MP4] in [4K]: 96GB

[MOV] in 600Mbps or less: 192GB

[MOV] in 800Mbps: 640GB

[ProRes] in [5.8K] [4.8K] [C4K] [Cs4K] [4K] [3.3K]: 640GB

- The recording time varies depending on the shooting format and the operating conditions. It will stop automatically once the internal temperature gets too high.

(*2) HLG is selectable in [4:2:2 10bit] or [4:2:0 10bit].

(*3) High-res audio is selectable only when attaching Φ 3.5mm microphone or DMW-XLR2 (sold separately).

(*4) Proxy video recording is available.