LUMIX S1R (DC-S1R)
Full-Frame Mirrorless Camera

TYPE

Type	Digital Single Lens Mirrorless camera
Recording media	XQD Memory Card, SD Memory Card / SDHC Memory Card* / SDXC Memory Card*, CFexpress Card (CFexpress Ver2.0 Type B) ****** *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.
Lens mount	L-Mount

IMAGE SENSOR

Type	35mm full-frame (36.0 x 24.0mm) CMOS sensor
Camera effective pixels / Total pixels	47.30 megapixels / 50.44 megapixels
Aspect ratio / Color filter	3:2 / Primary color filter
Dust reduction system	Supersonic wave filter

STILL IMAGE

Aspect ratio	4:3 / 3:2 / 16:9 / 1:1 / 65:24 / 2:1	
	Aspect ratio	4:3 / 3:2 / 16:9 / 1:1 / 65:24 / 2:1
Image quality	RAW / RAW+Fine / RAW+Standard / Fine / Standard	
Color Space	sRGB, AdobeRGB	
Recording file format	**Still image**	JPEG (DCF, Exif 2.31), RAW, HLG Photo (CTA-2072)

	6K PHOTO(*2) / 4K PHOTO(*2)	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)
File size(Pixels)	**When using full-frame lenses / 3:2**	8368x5584(L) / 5952x3968(M) / 4272x2848(S) / 16736x11168(XL)* *High Resolution Mode. RAW file. 5184x3456(6K PHOTO) / 3504x2336(4K PHOTO) / 6464x4320(HLG PHOTO, 8K-Res.) / 3232x2160(HLG PHOTO, 4K-Res.)
	When using full-frame lenses / 4:3	7440x5584(L) / 5296x3968(M) / 3792x2848(S) / 14880x11168(XL)* *High Resolution Mode. RAW file. 4992x3744(6K PHOTO) / 3328x2496(4K PHOTO) / 5760x4320(HLG PHOTO, 8K-Res.) / 2880x2160(HLG PHOTO, 4K-Res.)
	When using full-frame lenses / 16:9	8368x4712(L) / 5952x3352(M) / 4272x2400(S) / 16736x9424(XL)* *High Resolution Mode. RAW file. 3840x2160(4K PHOTO) / 7680x4320(HLG PHOTO, 8K-Res.) / 3840x2160(HLG PHOTO, 4K-Res.)
	When using full-frame lenses / 1:1	5584x5584(L) / 3968x3968(M) / 2848x2848(S) / 11168x11168(XL)* *High Resolution Mode. RAW file. 2880x2880(4K PHOTO) / 4320x4320(HLG PHOTO, 8K-Res.) / 2144x2144(HLG PHOTO, 4K-Res.)
	When using full-frame lenses / 65:24	8368x3088(L)
	When using full-frame lenses / 2:1	8368x4184(L)
	When using APS-C lenses / 3:2	5504x3664(L) / 3920x2608(M) / 2784x1856(S)
	When using APS-C lenses / 4:3	4880x3664(L) / 3472x2608(M) / 2480x1856(S)
	When using APS-C lenses / 16:9	5504x3096(L) / 3840x2160(M) / 1920x1080(S)
	When using APS-C lenses / 1:1	3664x3664(L) / 2608x2608(M) / 1856x1856(S)

MOTION PICTURE

Recording file format	MOV: H.265/HEVC (Audio format: LPCM (2ch 48kHz/24-bit*, 96kHz/24-bit*))******** *When attaching DMW-XLR1 (sold separately). MP4: H.264/MPEG-4 AVC (Audio format: LPCM (2ch 48kHz/16-bit), AAC (2ch)) AVCHD Progressive (Audio format: Dolby Audio (2ch)), AVCHD (Audio format: Dolby Audio (2ch))
Switch NTSC / PAL(*8)	Yes (NTSC (59.94Hz) / PAL(50.00Hz))
MOV****** [5K] 4992x3744 High-res audio is selectable only when using the DMW-XLR1 (sold separately).**	29.97p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio) (PIXEL/PIXEL) *HLG is selectable. 25.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio) (PIXEL/PIXEL) *HLG is selectable. 23.98p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio) (PIXEL/PIXEL) *HLG is selectable.

MP4(*2)High speed video *When Creative Video Mode is selected. [4K] 3840x2160	59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
	50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
	29.97p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
	25.00p, 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)
MP4(*2) High speed video *When Creative Video Mode is selected. [FHD] 1920x1080	59.94p, 28Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
	50.00p, 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)
	25.00p, 20Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
AVCHD Progressive(*2) AVCHD(*2) [FHD] 1920x1080	50.00p, 28Mbps (4:2:0 8-bit LongGOP) (Dolby Audio)
	50.00i, 24Mbps (4:2:0 8-bit LongGOP) (Dolby Audio) (Sensor output is 25.00fps)
	50.00i, 17Mbps (4:2:0 8-bit LongGOP) (Dolby Audio) (Sensor output is 50.00fps)
	23.98p, 24Mbps (4:2:0 8-bit LongGOP) (Dolby Audio)
MP4(*2) High speed video *When Creative Video Mode is selected. [4K] 3840x2160	29.97p (Sensor output is 60fps)
	25.00p (Sensor output is 50fps)
	23.98p (Sensor output is 48fps)
MP4(*2) High speed video *When Creative Video Mode is selected. [FHD] 1920x1080	29.97p (Sensor output is 180fps / 120fps)
	25.00p (Sensor output is 150fps / 100fps)
Continuous recordable time (Motion picture)(*2)	Approx. 150 min (rear monitor), 140 min (LVF) in [AVCHD/FHD/60p] *When using S-R24105 and SD Memory Card.
Actual recordable time (Motion picture)(*2)	Approx. 75 min (rear monitor), 70 min (LVF) in [AVCHD/FHD/60p] *When using S-R24105 and SD Memory Card.

VIEWFINDER

Type	OLED Live View Finder
Pixels	Approx. 5,760k dots
Field of view / Magnification	Approx. 100% / Approx. 0.78x with 50 mm lens at infinity; -1.0 m-1
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
Display time lag	Approx. 0.005sec

REAR MONITOR

Type	TFT LCD monitor with static touch control
Monitor size	Triaxial tilt, 3.2-inch (8.0cm), 3:2 aspect

Pixels	Approx. 2,100k dots
Field of view	Approx. 100%

STATUS LCD

STATUS LCD	Yes

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 - 18 (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, 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

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)
Exposure mode	Program AE / Aperture Priority AE / Shutter Priority AE / Manual Exposure
ISO sensitivity (Standard Output Sensitivity)	Auto / 50* / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200* (Changeable to 1/3 EV step) *Extended ISO

Exposure compensation	1/3 EV step ±5EV (±3EV for motion picture)
AE lock	Set the Fn button in custom menu to AE lock

IMAGE STABILIZATION SYSTEM

IMAGE STABILIZATION SYSTEM	Image sensor shift type (5-axis)
	6.0-stop* * Firmware must be updated to version 1.2 or later. Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=50mm when S-X50 is used.]
	Dual I.S. (Dual I.S. 2 compatible)
	6.5-stop* * Firmware must be updated to version 1.2 or later. Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=105mm, when S-R24105 is used.] Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=200mm, when S-R70200 is used.]
	7.0-stop* * Firmware must be updated to version 1.3 or later. 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), 1/16,000 - 60
	Motion picture: 1/16,000 - 1/25
Shutter life	Approx. 400,000 images
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: 9 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	AFC: H: 6 frames/sec (with Live View), M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View)
Burst speed -Electronic shutter	AFS/MF: H: 9 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 - When using CFexpress Card(*7)	RAW: More than 40 images
	RAW+JPEG: More than 35 images
	JPEG: More than 50 images
	*Using a Panasonic Corporation CFexpress Type B 256GB (RP-CFEX256) Memory Card or a SanDisk Corporation CFexpress Type B Extreme PRO 256GB (SDCFE-256G) Memory Card. Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic.
Number of recordable images - When using XQD memory card	RAW: More than 40 images
	RAW+JPEG: More than 35 images
	JPEG: More than 50 images
	*Using a Sony Corporation XQD G Series Memory Card. Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic.

6K PHOTO(*2) / 4K PHOTO(*2)

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 1/320 second
Wireless control	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch
Flash sync socket	Yes

EXTRA TELE CONVERSION

EXTRA TELE CONVERSION	2.0x (EX S), 1.4x (EX M) *Only for still image recording.

PHOTO STYLE

Photo Style	Standard / Vivid / Natural / L. Classic Neo (Firmware version 1.9)* / Flat / Landscape / Portrait / Monochrome / L. Monochrome / L. Monochrome D / L. Monochrome S (Firmware version 1.9)* / Cinelike D / Cinelike V / Like709 / Like2100 (HLG) (Firmware version 1.6 or later)* / Standard (HLG) / Monochrome (HLG) / My Photo Style 1-10 *Firmware must be updated.
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.) *Firmware must be updated to version 1.9.

FILTER

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 *Firmware must be updated to version 1.8 or later.
Luminance level	8-bit: 0-255 / 16-235******** / 16-255 10-bit********: 0–1023 / 64–940 / 64–1023
SS/Gain operation(*8)	Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB
SS/Gain operation (*9)	Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB

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/MF / 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. / Flicker Decrease (Photo) / Post-Focus / Motion Pic. Rec Format / Motion Pic. Rec Quality / Sound Rec Level Disp. / Sound Rec Level Adj. / Mic. Directivity Adjust / Image Stabilizer / E-Stabilization (Video) / Boost I.S. (Video) / Q.MENU / Rec / Playback Switch / Video Record / LVF/Monitor Switch / LVF Magnification / Dial Operation Switch / Preview / Preview Aperture Effect****** / Constant Preview / Level Gauge / Histogram / Photo Grid Line / Live View Boost / Monochrome Live View / Night Mode / LVF/Monitor Disp. Style / Photo/Video Preview / Zebra Pattern / HLG View Assist(Monitor) / HLG View Assist (HDMI) / Sheer Overlay / I.S. Status Scope / Focus Ring Control/ Zoom Control / Destination Card Slot / Wi-Fi / No Setting / Off (Disable Press and Hold)****** / Restore to Default

PLAY	Magnify from AF Point / HLG View Assist(Monitor) / 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) / HLG View Assist (HDMI) / 6K/4K Photo Play / No Setting / Off (Disable Press and Hold)****** / Restore to Default

Fn LEVER

Fn LEVER	AF Mode / Photo Style / Picture Quality / Long Exposure NR / Focus Peaking / Bracketing / Silent Mode / Image Stabilizer / Shutter Type / 6K/4K PHOTO (Pre-Burst) / Focus Ring Lock / Touch Screen / Touch Pad AF / Auto Review (Photo) / Live View Boost / Night Mode / Sheer Overlay / Front/Rear/Control Dial Lock / No Setting / Restore to Default

LEVEL GAUGE

LEVEL GAUGE	Yes

OSD LANGUAGE

OSD LANGUAGE	Japanese, English, German, French, Italian, Spanish, Polish, Czech, Hungarian, Romanian, Netherlandic, Turkish, Portuguese, Finnish, Danish, Swedish, Greek, Russian

PRINT

PRINT	PictBridge compatible

INTERFACE

USB	SuperSpeed USB 3.1 Gen1 Type-C
HDMI*** Monitor-through	4:2:2 8bit (Except for [4K/60p]/[4K/50p]*******) / 4:2:0 8bit 4:2:2 10bit******** (When [4K/60p]/[4K/50p] mode is selected in [Rec Quality], it is not possible to record motion picture or still picture on the memory card in the camera unit.)
HDMI*** Playback	HDMI TypeA / VIERA Link Video: Auto / 4K/50p / 4K/25p / 1080p / 1080i / 720p / 576p Audio: Stereo
Audio video output	No
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).

Speaker	Monaural
Card slot	Slot 1: XQD Memory Card, CFexpress Card (CFexpress Ver2.0 Type B)****** 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.

WIRELESS

Wi-Fi	2.4GHz bands (STA/AP) (IEEE802.11b/g/n) 5GHz bands (STA) (IEEE 802.11a/n/ac) *5GHz Wi-Fi is not available in some countries. 1-13, 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 ch
Bluetooth	Bluetooth® v4.2 (Bluetooth Low Energy (BLE))

DUST AND SPLASH RESISTANT

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 (7.4V, 3050mAh, 23Wh) (bundled) USB power supply, USB power charging
Battery life (CIPA standard)/ When using CFexpress Card	Approx. 360 images (rear monitor), 340 images (LVF), 1,100 images (Power Save LVF mode*) with S-R24105 *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 life (CIPA standard)/ When using XQD memory card	Approx. 360 images (rear monitor), 340 images (LVF), 1,100 images (Power Save LVF mode*) with S-R24105 *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 life (CIPA standard)/ When using SD memory card	Approx. 380 images (rear monitor), 360 images (LVF), 1,150 images (Power Save LVF mode*) with S-R24105 *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-BGS1 (sold separately)

DIMENSIONS / WEIGHT

Dimensions (W x H x D)	Approx. 148.9 x 110.0 x 96.7 mm / 5.86 x 4.33 x 3.81 inch (excluding protrusions)
Weight	Approx. 1,020g / 2.25 lb (XQD Memory Card x 1, Battery, Body) Approx. 1,016g / 2.24 lb (SD Memory Card x 1, Battery, Body) Approx. 898g / 1.98 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)
Software- Playback / Editing	・ 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 Ichikawa Soft Laboratory's website using computer connected to the Internet. http://www.isl.co.jp/SILKYPIX/english/p/ (For Windows / Mac)
Standard accessories	DC-S1R Kit Body Cap, Hot Shoe Cover, Eye Cup, Flash Synchro Socket Cap, Cover for the Battery Grip Connector, Shoulder Strap, Battery Pack, Battery Charger, AC Adaptor, AC Mains Lead, USB Connection Cable (C-C), USB Connection Cable (A-C), Cable Holder ・ The DC-S1R Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

NOTE

NOTE	** About motion picture recording / 6K PHOTO/4K PHOTO recording - 6K PHOTO is a high speed burst shooting function that cuts a still image out of a 4:3 or 3:2 video footage with approx. 18-megapixel (approx. 6000 x 3000 effective pixel count) that the 6K image manages. - Use an SD memory card with SD Speed Class with ""Class 4"" or higher when recording motion pictures in [AVCHD]. - Use an XQD or SD memory card with SD Speed Class with ""Class 4"" or higher when recording motion pictures in [MP4(under 28Mbps)]. - Use an XQD or SD memory card with SD Speed Class with ""UHS-I / UHS-II UHS Speed Class 3 (U3)"" when recording motion pictures with [MP4] in [4K] [High Speed Video] [6K PHOTO/4K PHOTO] or [MOV]. (SD speed class is the speed standard regarding continuous writing.) - Recording stops when the continuous recording time exceeds 10 minutes with [MP4] in [High Speed Video] [6K PHOTO]. - Recording stops when the continuous recording time exceeds 15 minutes with [MP4] in [4K] [4K PHOTO] or [MOV]. - Motion pictures with [MP4] in [4K] or [MOV]: - When using an XQD memory card of 32 GB or less, or 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 XQD memory card over 32 GB, or 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. - 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. - When the ambient temperature is high or continuous recording is performed, the camera may stop the

recording to protect itself. Wait until the camera cools down.

- XQD is a registered trademark of Sony Corporation.

*** For [5K] [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.

***** Firmware must be updated to version 1.2 or later.

****** Firmware must be updated to version 1.3 or later.

******* Firmware must be updated to version 1.6 or later.