

## Leica SL3 Body Only Specifications

### Leica SL3

#### Specifications

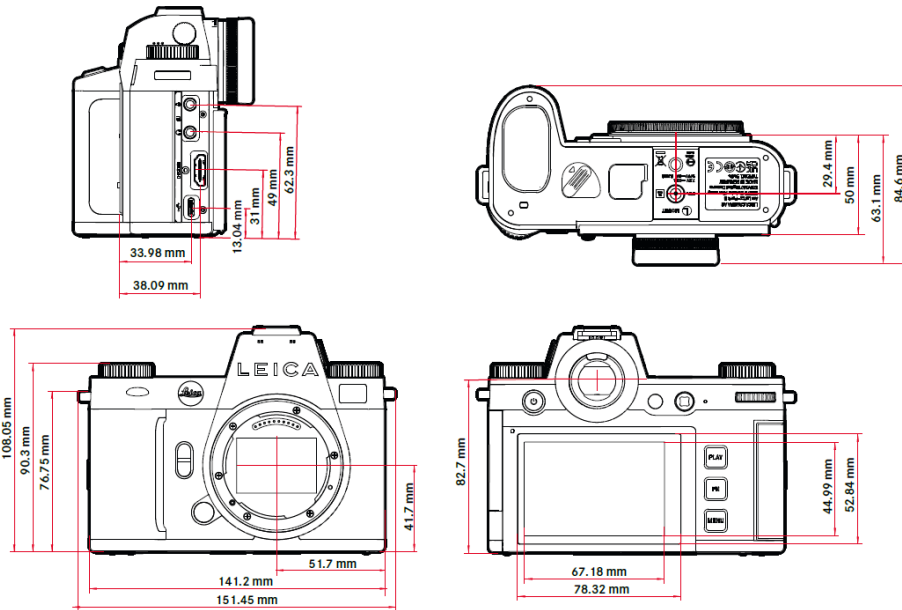
Camera type:	Mirrorless full-frame system camera
Type No.:	5404
Order No.:	10 607 (EU/US/CN), 10 608 (JP), 10 609 (ROW)
Buffer memory:	8 GB, capacity depends on frame rate and image format, estimated quantity (number of possible images in the buffer memory)

Continuous Shooting	DNG	DNG + JPG	JPG
15 fps, 12 Bit	60	60	60
9 fps, 12 Bit	75	65	75
7 fps, 12 Bit	80	70	80
6 fps, 14 Bit	90	75	90
5 fps, 12 Bit, AF	90	75	90
4 fps, 14 Bit, AF	100	80	105
2 fps, 14 Bit, AF	400	120	unlimited

The values depend on the type of memory card used (SD or CFexpress) / resolution

Storage medium:	UHS-II (recommended), UHS-I, SD/SDHC/SDXC card + CFexpress card type B (recommended)
Material:	Full metal housing: magnesium and aluminum, leatherette covering, splash water protected in accordance with IEC Standard 60529 (protection type IP54)
Lens mount:	Leica L bayonet with contact strip for communication between lens and camera
Operating conditions:	-10 to +40°C
Interfaces:	ISO accessory shoe with additional control contacts, timecode interface, HDMI jack 2.1 Type A, USB 3.1 Gen1 Type C,
Audio-Out: multifunction handgrip	3.5 mm/Audio-In 3.5 mm, communication interface in the bottom cover for
Tripod thread:	A 1/4 DIN 4503 (1/4") with stainless steel in the base

Dimensions:



Weight: Approx. 769.7 g (without battery, SD card, body cap)

**Sensor**

Sensor size: CMOS sensor, 62.39 MP/60.3 MP (total/effective)

Image stabilisation: 5-axis image stabilisation up to 5-stops

Filter: RGB color filter, UV/IR filter, no low-pass filter

Processor: Leica Maestro series (Maestro IV)

File formats: Photo: DNG™ (raw data), DNG + JPG, JPG (DCF 2.0, Exif 2.31)

Video:

<b>MP4</b>	h.265	AAC	48 kHz/16 bit
	h.264	AAC	48 kHz/16 bit
<b>MOV</b>	h.265	LPCM	48 kHz/24 bit
	h.264	LPCM	48 kHz/24 bit
	ProRes	LPCM	48 kHz/24 bit

Image resolution:

<b>35 mm</b>	<b>JPG</b>		<b>DNG</b>	
<b>L</b>	9520x6336	60.3 MP	9520x6336	60.3 MP
<b>M</b>	7392x4928	36.4 MP	7404x4928	36.5 MP
<b>S</b>	5280x3504	18.5 MP	5288x3518	18.6 MP
<b>APS-C</b>	<b>JPG</b>		<b>DNG</b>	
<b>L</b>	6256x4160	26.0 MP	6256x4168	26.1 MP
<b>M</b>	4864x3232	15.7 MP	4868x3242	15.8 MP
<b>S</b>	3472x2304	8.0 MP	3476x2314	8.0 MP

Colour depth: DNG™: 14 bit (12 bit also possible depending on the continuous shooting mode), JPG: 8 bit

Colour space: Photo: sRGB



Video: Rec. 709/Rec. 2020 (HLG/L-Log)

File size:

DNG™: approx. 70 MB, depending on resolution and image content, JPG: depending on resolution and image content

Video: max. length depending on ambient temperature and available memory space

Video recording mode:

Video mode: P - A - S - M

Cine mode: M

Video Resolution:

	<b>RESOLUTION</b>
<b>C8K (17:9)</b>	8192x4320
<b>8K (16:9)</b>	7680x4320
<b>C4K (17:9)</b>	4096x2160
<b>4K (16:9)</b>	3840x2160
<b>Full HD (16:9)</b>	1920x1080

Video frame rate:

MOV C8K				
<b>MOV C8K (recording to SD)</b>				
29.97fps	C8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
25.00fps	C8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
24.00fps	C8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
23.98fps	C8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
<b>MOV C8K (HDMI output without HLG/L-Log and without recording to SD)</b>				
29.97fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
25.00fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
24.00fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
23.98fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
<b>MOV C8K (HDMI output with HLG/L-Log or during recording to SD)</b>				
29.97fps	C4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
25.00fps	C4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
24.00fps	C4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
23.98fps	C4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
MOV 8K				
<b>MOV 8K (recording to SD)</b>				
29.97fps	8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
25.00fps	8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
24.00fps	8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
23.98fps	8K 4:2:0 / 10bit	h.265	L-GOP	300 Mbps
<b>MOV 8K (HDMI output without HLG/L-Log and without recording to SD)</b>				
29.97fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
25.00fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
24.00fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
23.98fps	8K 4:2:0 / 8bit	h.265	L-GOP	300 Mbps
<b>MOV 8K (HDMI output with HLG/L-Log or during recording to SD)</b>				
29.97fps	4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
25.00fps	4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
24.00fps	4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
23.98fps	4K 4:2:2 / 10bit	h.265	L-GOP	300 Mbps
MOV C4K				
59.94fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	600 Mbps
50.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	600 Mbps
48.00fps	4:2:2 / 10bit (SD)	h.264	ALL-I	600 Mbps
24.00fps	4:2:2 / 10bit (HDMI)			600 Mbps
47.95fps	4:2:2 / 10bit (SD)	h.264	ALL-I	600 Mbps
23.98fps	4:2:2 / 10bit (HDMI)			600 Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
25.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
24.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
MOV 4K				
59.94fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	600 Mbps
50.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	600 Mbps
48.00fps	4:2:2 / 10bit (SD)	h.264	ALL-I	600 Mbps
24.00fps	4:2:2 / 10bit (HDMI)			600 Mbps
47.95fps	4:2:2 / 10bit (SD)	h.264	ALL-I	600 Mbps
23.98fps	4:2:2 / 10bit (HDMI)			600 Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
25.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
24.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
MOV FHD				
119.88fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
100.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	400 Mbps
59.94fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps
50.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps
48.00fps	4:2:2 / 10bit (SD)	h.264	ALL-I	200 Mbps
24.00fps	4:2:2 / 10bit (HDMI)			200 Mbps
47.95fps	4:2:2 / 10bit (SD)	h.264	ALL-I	200 Mbps
23.98fps	4:2:2 / 10bit (HDMI)			200 Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps
25.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps
24.00fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)	h.264	ALL-I	200 Mbps

MOV FHD Slow Motion				
Sensor:	4:2:0 / 10bit (SD & HDMI)	h.265	L-GOP	100Mbps
119.88fps				
Recording/				
Playback:				
29.97fps				
Sensor:	4:2:0 / 10bit (SD & HDMI)	h.265	L-GOP	100Mbps
100.00fps				
Recording/				
Playback:				
25.00fps				
MOV FHD ProRes				
59.94fps	422HQ		ProRes	454Mbps
50.00fps	422HQ		ProRes	378Mbps
29.97fps	422HQ		ProRes	227Mbps
25.00fps	422HQ		ProRes	189Mbps
24.00fps	422HQ		ProRes	182Mbps
23.98fps	422HQ		ProRes	181Mbps
MP4 8K				
<b>MP4 8K (recording to SD)</b>				
29.97fps	8K 4:2:0 / 10bit	h.265	L-GOP	300Mbps
25.00fps	8K 4:2:0 / 10bit	h.265	L-GOP	300Mbps
23.98fps	8K 4:2:0 / 10bit	h.265	L-GOP	300Mbps
<b>MP4 8K (HDMI output without recording to SD)</b>				
29.97fps	8K 4:2:0 / 8bit	h.265	L-GOP	300Mbps
25.00fps	8K 4:2:0 / 8bit	h.265	L-GOP	300Mbps
23.98fps	8K 4:2:0 / 8bit	h.265	L-GOP	300Mbps
<b>MP4 8K (HDMI output during recording to SD)</b>				
29.97fps	4K 4:2:2 / 10bit	h.265	L-GOP	300Mbps
25.00fps	4K 4:2:2 / 10bit	h.265	L-GOP	300Mbps
23.98fps	4K 4:2:2 / 10bit	h.265	L-GOP	300Mbps
MP4 4K				
59.94fps	4:2:0 / 10bit (SD & HDMI)	h.265	L-GOP	100Mbps
50.00fps	4:2:0 / 10bit (SD & HDMI)	h.265	L-GOP	100Mbps
29.97fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	100Mbps
25.00fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	100Mbps
23.98fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	100Mbps
MP4 FHD				
59.94fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	28Mbps
50.00fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	28Mbps
29.97fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	20Mbps
25.00fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	20Mbps
23.98fps	4:2:0 / 8bit (SD & HDMI)	h.264	L-GOP	24Mbps

Bit rate: 8 bit/10 bit for recordings on SD card, 10 bit for HDMI output

Video Gamma: Rec. 709, L-Log Rec. 2020, HLG Rec. 2020

Further information can be found in the "L-Log Reference Manual" for download on the Leica homepage.

Viewfinder/LCD panel

- Viewfinder (EVF): Resolution: 5,760,000 dots, 60 fps or 120 fps, magnification: approx. 0.76x at aspect ratio: 3:2 / approx. 0.78x at aspect ratio: 4:3, frame coverage: 100%, exit pupil position: 21 mm, setting range -4/+2 dpt, with eye sensor for automatic switchover between viewfinder and LCD panel, time delay 0.005 s
- LCD panel: 3.2" (backlight LED) with anti-fingerprint and anti-scratch coating, 2,332,800 dots, format 3:2, touch panel
- Top display: 1.28" highly reflective trans-reflective monochrome LCD, 128 x 128 pixels, viewing angle 120°, anti-fingerprint coating
- Shutter**
- Shutter type: Electronically controlled focal plane shutter
- Shutter speeds: Mech. shutter: 60 min to 1/8000 s, electr. shutter function: 60 s to 1/16000 s, flash synchronization: up to 1/200 s
- Shutter button: Two-stage (1st stage: Activation of the camera electronics including autofocus and exposure metering, 2nd stage: Taking the picture)
- Self-timer: Delay time: 2 s, 6 s, 12 s or 30 s
- Drive Mode: Single, Continuous Shooting, Interval Shooting, Exposure Bracketing

Continuous shooting:

Setting	Shutter type	Autofocus mode for continuous shooting
2 fps, 14 bit, AF	Mech. or electr. shutter	AFC, even if AFs or Intelligent AF is selected
4 fps, 14 bit, AF		
5 fps, 12 bit, AF		
6 fps, 14 bit*		
7 fps, 12 bit*	Electr. shutter	No refocusing
9 fps, 12 bit*		
15 fps, 12 bit*		

\*Automatic settings (exposure settings in operating modes P/A/S, automatic white balance and autofocus) are implemented for the first frame, and are then applied for each subsequent frame in the same picture series.

## Focusing

- Focus mode: Automatic or manual
- With manual setting: optional magnifying glass function (Magnification) and edge marking (Focus Peaking) available as focus assist
- Autofocus system: Hybrid-AF due to combination of contrast metering, depth mapping, and phase comparison metering with AF metering points in the sensor.
- Autofocus modes: Intelligent AF (automatically refocuses as soon as something changes in the scene), AFs, AFC, AF setting can be saved, optional Touch AF
- Autofocus metering methods: Multi-field, Spot (can be shifted), Field (can be shifted and scaled), Zone (can be shifted and scaled), Tracking, Eye/Face/Body Detection, Animal Detection (Beta)
- Autofocus metering fields: 315

## Exposure

Exposure metering:	TTL (exposure metering through the lens)
Exposure metering methods:	Spot, Center-Weighted, Highlight-Weighted, Multi-Field
Exposure modes:	Program AE mode (P), aperture-priority mode (A): manual aperture setting, shutter-priority mode (S): manual shutter speed setting, Manual (M): manual setting for shutter speed and aperture
Exposure compensation:	±3 EV in 1/3 EV increments or 1/2 EV increments
Automatic bracketing:	3 or 5 frames, graduations between shoots up to 3 EV, in 1/3 EV increments, additional optional exposure compensation: up to ±3 EV

ISO sensitivity range:

	Photo	Video	Video L-Log	HLG
Auto ISO	ISO 100– ISO 100 000	ISO 100– ISO 100 000	ISO 200– ISO 100 000	ISO 400– ISO 100 000
Manual	ISO 50– ISO 100 000	ISO 50– ISO 100 000	ISO 200– ISO 100 000	ISO 400– ISO 100 000

Dual Basis ISO settings:

	Photo	Video	Video L-Log	HLG
Low Basis ISO	ISO 50– ISO 280	ISO 50– ISO 280	ISO 200– ISO 560	ISO 400– ISO 1100
High Basis ISO	ISO 320– ISO 100 000	ISO 320– ISO 100 000	ISO 640– ISO 100 000	ISO 12000– ISO 100 000

White balance: Automatic (Auto), default (Daylight, Cloudy, Shadow, Tungsten, HMI, Fluorescent (warm), Fluorescent (cool), Flash), manual metering (Gray Card (pipette), Gray Card), manual color temperature settings (Color Temperature, 2000 K to 11500 K)

## Flash

Flash unit connector:	Via the accessory shoe
Flash synchro socket:	For flash synchronization (photo mode only)
Flash sync time:	1/200 s, slower shutter speeds available, automatic switchover to TTL linear flash mode with HSS-compatible Leica system flash units if sync time is undercut
Flash exposure metering:	Using center-weighted TTL pre-flash metering with Leica flash units (SF 26, SF 40, SF 58, SF 60, SF 64) or with system-compatible flash units, remote controlled flash SF C1
Flash exposure compensation:	SF 40: ±2 EV in 1/2 EV increments  SF 60: ±2 EV in 1/3 EV increments

## Equipment

Microphone:	Stereo internal + microphone input 3.5 mm stereo jack
Speaker:	Mono internal + headphones output 3.5 mm stereo jack
WLAN:	The Leica FOTOS app is required to use the WLAN function. The Leica app is available from the Apple App Store™ or the Google Play Store™.

	2.4 GHz	5 GHz	
EU/ US/ CN	IEEE802.11b/g/n Channel 1-11 (2412-2462 MHz)	Client mode: (For indoor use only) IEEE802.11a/n/ac: Channel 36-64 (5180-5320 MHz)	Access point + client mode: IEEE802.11a/n/ac: Channel 149-165 (5745-5825 MHz)
JP		Access point + client mode: (For indoor use only) IEEE802.11a/n/ac: Channel 36-48 (5180-5240 MHz)	Client mode: (For indoor use only) IEEE802.11a/n/ac: Channel 52-144 (5260-5720 MHz)
ROW			

Encryption method: WLAN-compatible WPA2™

Bluetooth:

Bluetooth 5.0 LE: Channel 0–39 (2402–2480 MHz)

GPS:

Not available everywhere due to country-specific legislation; can be added via the Leica FOTOS app. Data is written to Exif header of the picture files.

Menu languages:

English, German, French, Italian, Spanish, Portuguese, Russian, Japanese, Simplified Chinese, Traditional Chinese, Korean

### Power supply

Rechargeable battery (Leica BP-SCL4): Lithium-ion rechargeable battery, rated voltage: 7.2 V (DC); capacity: 2200 mAh (min.), 260 shots (based on CIPA standard), 1350 shots (based on CIPA standard with adapted shooting cycle\*) with Displays/AF Auto Off = 5 s); manufacturer: Panasonic Energy (Wuxi) Co. Ltd., Made in China

\*Cycle 1: Switch on, 1st shutter release after 5 s, one shot every 3 s, after 10 shots the camera is switched off (Auto Power Off) and switched on again after a waiting time of 5 min.

Cycle 2: Switch on, 1st shutter release after 5 s, one shot every 3 s, after 50 shots the camera is switched off (Auto Power Off) and switched on again after a waiting time of 5 min.

These cycles are repeated alternately until the battery is empty.

USB-C power adapter (Leica ACA-SCL6) (optional):

Input: AC 100–240 V, 50/60 Hz, 0.25 A, automatic switchover; Output: DC 5 V/9 V, 3 A; Manufacturer: Salom Electric (Xiamen) Co., Ltd., Made in China

Dual Charger (Leica BC-SCL6) (optional):

Input: DC 5 V/3 A, 9 V/3 A, automatic switchover; Output: DC 8.4 V, 850 mA/1000 mA; Manufacturer: Salom Electric (Xiamen) Co., Ltd., Made in China

Charging via USB:

During operation: 9 V/3 A (min. 27 W)

With camera switched off: 5 V/1500 mA (2.5 W or greater)