



# LEICA SL2-S

Instruction manual



## FOREWORD

Dear Customer,

We wish you a great deal of fun and success taking photographs with your new Leica SL2-S. Please read this manual thoroughly to familiarize yourself with the full scope of functions your camera has to offer. You can find all information about the Leica SL2-S whenever you need it at <https://SL2-S.leica-camera.com>.

Your Leica Camera AG

## SCOPE OF DELIVERY

Before using your camera for the first time, please check that the accessories supplied are complete.

- Leica SL2-S
- Lithium-ion rechargeable battery Leica BP-SCL4
- Charger Leica BC-SCL4, incl. mains cable (US, EU)
- Camera bayonet cover
- Carry strap
- Quick Start Guide
- CE flyer
- Creative Cloud flyer
- Test certificate

Subject to changes in design and model type.

## REPLACEMENT PARTS / ACCESSORIES

Please contact Leica Customer Care or visit the Leica Camera AG website for information on the extensive range of Leica replacement parts/accessories:

<https://leica-camera.com/en-US/photography/accessories>

Only the accessories specified and described in this manual or by Leica Camera AG must be used with the camera (battery, charger, mains plug, mains cable, etc.). These accessories must only be used with this product. Third-party accessories may result in malfunctions or damage to the product.

Please read the chapters “Legal information”, “Safety remarks”, and “General information” before using your camera for the first time. Knowledge of the content will prevent inadvertent damage to the product, possible injuries and other risks.



**COPYRIGHT NOTICE**

- Compliance with copyright laws is mandatory. The recording and publication of pre-recorded media like tapes, CDs or other published or broadcast material may breach copyright laws. The same applies for all software supplied in the scope of delivery.
- The following applies for all video material created with this camera: This product is governed by the AVC Patent Portfolio license and is meant for private use by a consumer only. The device may furthermore be used for purposes for which the consumer receives no remuneration, e.g. (i) encoding in accordance with the AVC Standard (“AVC Video”) and/or (ii) decoding of AVC Video that was encoded by a consumer in accordance with the AVC Standard within the scope of personal use and/or which the consumer has received from the provider, who is in possession of a license to offer AVC Video. No license is granted or implied for any other use. Any other use, specifically the provision of AVC video in exchange for remuneration, may require a separate license agreement with MPEG LA, L.L.C. Please visit the MPEG LA, L.L.C. website at: [www.mpegla.com](http://www.mpegla.com) for more information.
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Product changes with regards to the product or services may have occurred after the editorial deadline. The manufacturer reserves the right to effect structural or shape changes, color deviations and changes to the scope of delivery or service, where these changes or deviations are reasonably acceptable for the customer, while taking into consideration the interests of Leica Camera AG. In that respect, Leica Camera AG reserves the right to changes and errors. The images in this manual may depict accessory, special features or other items that are not part of the standard scope of delivery or service. Some pages may contain model types and services, which are not offered in specific countries.

## BRANDS AND LOGOS

The brand names and logos used in this documented are protected trademarks. These brands or logos must not be used without prior approval by Leica Camera AG.

## LICENSE RIGHTS

Leica Camera AG intends to provide you with innovative and informative documentation. Due to the amount of creativity that has gone into its design, we ask for your understanding that Leica Camera AG must protect its intellectual property, including patents, trademarks and copyrights, and that possession of the documentation does not infer any licensing rights of the intellectual property of Leica Camera AG.

## REGULATORY INFORMATION

You will find the manufacturing date of your camera on the stickers in the Warranty Card and/or on the packaging.

The date format is year/month/day.

## COUNTRY-SPECIFIC LICENSES

Specific regional approvals for this device can be found in the camera menu.

- ▶ Select **Camera Information** in the main menu
- ▶ Select **Regulatory Information**

## LICENSE INFORMATION

The device-specific license information can be found in the camera menu.

- ▶ Select **Camera Information** in the main menu
- ▶ Select **License Information**



## CE MARK

The CE mark on our products documents compliance with the fundamental requirements of applicable EU guidelines.

### English

#### Declaration of Conformity (DoC)

Hereby, "Leica Camera AG" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Customers can download a copy of the original DoC to our Radio Equipment products from our DoC server:

[www.cert.leica-camera.com](http://www.cert.leica-camera.com)

Please contact Leica Camera AG, Am Leitz-Park 5, 35578 Wetzlar, Germany in case of any further questions

#### Depending on product (see technical data)

Type	Frequency band (center frequency)	Maximum output (dBm E.I.R.P.)
WLAN	2412-2462/5180-5240 MHz/	20
	5260-5320/5500-5700 MHz	
Bluetooth® Wireless Technology	2402-2480 MHz	20

## DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT

(Applies within the EU and for other European countries with active waste separation policies.)



This device contains electric and/or electronic components which must not be disposed of in general household waste. Instead, it should be disposed of at a recycling collection point provided by your local authority.

This service is free of charge. Any standard or rechargeable batteries used in this device must be removed and disposed of separately in accordance with local regulations.

Please contact your local authorities, waste disposal collection point or the retailer, from whom you purchased the device for more information on correct waste disposal.

## IMPORTANT NOTES REGARDING THE USE OF WLAN/BLUETOOTH®

- Appropriate measures must be taken to ensure security and protect against disruptions to the systems in place where devices or computer systems are in use that require more stringent security than WLAN devices.
  - Leica Camera AG shall not accept liability for damages arising from the use of the camera for purposes other than as a WLAN device.
  - It is assumed that the WLAN function will be used in countries where this camera is sold. There may be a risk of breaching statutory wireless communication regulations when using the camera in other countries. Leica Camera AG shall not accept liability for such breaches.
  - Please note that there is a risk of unauthorized third party interception of wirelessly communicated data. We highly recommend that you activate encryption in the wireless access point settings to ensure data safety.
  - Avoid using the camera in areas where it can be exposed to magnetic fields, static electricity or other interferences, e.g. near a microwave oven. RF transmissions may otherwise not reach the camera.
- Using the camera near devices like microwave ovens or wireless phones that use the 2.4GHz RF band may negatively affect the performance of both devices.
  - Do not attempt to connect to wireless networks you are not authorized to use.
  - The device will automatically search for wireless networks, once the WLAN function is enabled. A list, including networks you are not authorized to access, will be displayed (SSID: Network identifier for a WLAN network). Do not attempt to connect to third party network, as this could be construed as unauthorized access.
  - We recommend disabling the WLAN function while on an aircraft.
  - The use of the WLAN-RF band between 5150MHz and 5350MHz is permitted only in enclosed spaces.
  - Please read the important notes on specific functions of Leica FOTOS on p. 264.



## SAFETY REMARKS

### GENERAL INFORMATION

- Do not use your camera in the immediate vicinity of devices that generate powerful magnetic, electrostatic or electromagnetic fields (e.g. induction ovens, microwave ovens, television sets or computer screens, video game consoles, cell phones, broadcasting equipment). Their electromagnetic fields can interfere with image recordings.
- Strong magnetic fields, e.g. from speakers or large electric motors can damage the stored data or disrupt shooting.
- Switch off the camera, remove the battery briefly, replace it and switch the camera back on in case of a camera malfunction due to the effects of electromagnetic fields.
- Do not use the camera in the immediate vicinity of radio transmitters or high-voltage power lines. Their electromagnetic fields may also interfere with image recordings.
- Always store small parts e.g. the accessory shoe cover as follows:
  - out of the reach of children
  - in a safe location, where they will not get lost or stolen
- State-of-the-art electronic components are sensitive to static discharge. You can easily pick up charges of several 10,000 volts by simply walking on synthetic floor coverings. A static discharge can occur when you touch the camera and especially if it is placed on a conductive surface. A static discharge on the camera housing poses no risk for the electronics. Despite built-in safety circuits, you should avoid direct contact with external camera contacts like those in the flash shoe.
- Take care not to soil or scratch the sensor for lens detection in the bayonet. You must similarly prevent direct contact of the bayonet with grains of sand or similar particles, as these could cause irre-

parable damage. This component must only be cleaned with a dry cloth (in system cameras).

- Use a cotton or linen cloth instead of a microfiber cloth from an optician's (synthetic) when cleaning the contacts. Make sure to discharge any electrostatic charge by deliberately touching a heating or water pipe (conductive, grounded material). Dirt deposits and oxidation on the contacts can be avoided by storing your camera in a dry location with the lens cap and the flash shoe/viewfinder cap (in system cameras) attached.
- Only use accessories specified for this model to prevent faults, short circuits or electric shock.
- Do not attempt to remove parts of the housing (covers) yourself. Repairs must be done at authorized service centers only.
- Protect the camera against contact with insect sprays and other aggressive chemicals. Petroleum spirit, thinner and alcohol must not be used for cleaning. Some chemicals and liquids can damage the camera housing or the surface finish.
- Rubber and plastics are known to expel aggressive chemicals and should therefore not be kept in contact with the camera for extended periods of time.
- Prevent any sand or dust or water penetration into the camera, e.g. during snowfall or rain or on the beach. Be extra careful when changing the lens (in system cameras) and when inserting or removing the memory card and rechargeable battery. Sand and dust can damage the camera, the lens, the memory card and the battery. Moisture can cause malfunctions and irreparable damage to the camera and memory card.

### LENS

- A camera lens can have the effect of a magnifying glass when exposed to direct frontal sunlight. The camera must therefore be protected against extended exposure to direct sunlight.



- Attaching the lens cap and keeping the camera in the shade or ideally in its camera case, will help prevent damage to the interior of the camera.

## RECHARGEABLE BATTERY

- Improper use of the batteries or the use of unapproved battery types may result in an explosion!
- Do not expose the rechargeable battery to sunlight, heat, humidity or moisture for prolonged periods of time. Likewise, the batteries must not be placed in a microwave oven or a high-pressure container as this would pose a fire or explosion hazard!
- Do not under any circumstances charge or insert a damp or wet battery into the camera!
- A safety valve in the battery ensures that any excess pressure caused by improper handling is discharged safely. It is nevertheless important to dispose of a bloated battery immediately. It may pose an explosion hazard!
- Keep the battery contacts clean and easily accessible. Although lithium-ion batteries are secured against short circuits, they should still be protected against contact with metal objects like paper clips or jewelry. A short-circuited battery can get very hot and cause severe burns.
- When a battery is accidentally dropped, make sure to check the housing and the contacts immediately for any damage. A damaged battery can damage the camera.
- The battery must be removed from the camera or charger and must be replaced immediately in case of a strange smell, discoloration, deformation, overheating or leakage. Continued use of the battery may result in overheating, which can cause fire and/or explosion!
- Never throw batteries into a fire as they may explode.

- Keep the battery away from sources of heat in case of leakage or if you smell burning. Leaked fluid can catch fire!
- The use of other chargers not approved by Leica Camera AG can cause damage to the batteries – and in extreme cases – cause serious or life-threatening injuries.
- Make sure that the power socket is freely accessible at all times.
- Do not attempt to open the battery or the charger. Repairs must only be carried out by authorized service centers.
- Keep batteries out of the reach of children. Batteries can cause suffocation when swallowed.

### FIRST AID

- Battery fluid may cause blindness if it comes into contact with the eyes. Rinse the eyes thoroughly with clean water immediately. Avoid rubbing. Seek medical attention immediately.
- Leaked battery fluid poses an injury hazard when it comes in contact with clothing or skin. Rinse the affected areas thoroughly with clean water.

## CHARGER

- Using the charger in the vicinity of broadcasting receivers may interfere with reception. Ensure a distance of at least 1 m between the charger and the receiver.
- When the charger is in use, it may emit a buzzing sound – that is normal and not a malfunction.
- Disconnect the charger from the mains when it is not in use, as it consumes electricity (a very small amount), even if no battery is inserted.
- Always keep the charger contacts clean, and never short-circuit them.

## MEMORY CARD

- Never remove the memory card during a data save or card reading process. The camera must not be switched off or be subjected to impact or vibrations while working.
- Do not open the cover/remove the memory card or the battery from the camera while the status LED is lit, which indicates memory access. Data on the card may otherwise be destroyed and camera malfunctions may occur.
- Do not drop or bend memory cards as this will cause damage and result in the loss of stored data.
- Do not touch the connections on the reverse of the memory card and keep them clean and dry.
- Keep memory cards out of the reach of children. Swallowing a memory card may cause suffocation.

## SENSOR

- Cosmic radiation (e.g. during flights) may cause pixel defects.

## CARRY STRAP

- Carry straps are usually made of very robust material. You should therefore keep it out of the reach of children. A carry strap is not a toy and poses a strangulation risk.
- Use the carry strap only for its intended purpose on a camera or on binoculars. Any other use poses the risk of injury and may possibly result in damage to the carry strap and is therefore not permitted.
- Carry straps should also not be used for cameras/binoculars during sports activities that pose a risk of entanglement (e.g. when mountain climbing and similar outdoor activities).

## TRIPOD

- When using a tripod, make sure it is standing securely and turn the camera only by turning the tripod, not the actual camera. Ensure that the tripod screw is hand-tightened only. Avoid transporting the camera while the tripod is attached. You might injure yourself or others and the camera could get damaged.

## FLASH

- The use of incompatible flash units with your Leica SL2-S may result in irreparable damage to the camera and/or the flash unit.



## GENERAL INFORMATION

Please read the section about “Care/Storage” for more information about what to do in case of problems.

### CAMERA/LENS (For system cameras)

- Make a note of the serial numbers of your camera (engraved in the base of the camera housing) and lenses, as this information will be extremely important in case of loss.
- Make sure to always have a lens or the camera bayonet cover attached to prevent dust or other foreign bodies penetrating the camera.
- That is why you should always replace lenses quickly and in a dust-free environment.
- Never store the camera bayonet cover or the lens back cover in a pants pocket, as they will attract lint and dust, which could then be accidentally introduced into the camera.

### LCD PANEL

- Condensation may form on the LCD panel if the camera is exposed to great temperature fluctuations. Wipe the screen carefully with a soft, dry cloth.
- The screen image will initially be slightly darker than normal if the camera is very cold when it is switched on. The normal level of brightness will be reached as soon as the LCD panel warms up.

### RECHARGEABLE BATTERY

- The rechargeable battery must only be charged within a specific temperature range. See chapter “Technical Data” (p.292) for details about operating conditions.

- Lithium-ion batteries can be charged at any time, regardless of their current charge level. A partially charged battery will charge to full capacity faster than a fully discharged one.
- The rechargeable batteries come only partly charged ex works and should therefore be charged fully before their first use.
- A new battery only reaches its full capacity after it has been fully charged and – by using it in the camera – depleted 2 to 3 times. This depletion process should be repeated roughly every 25 cycles.
- Battery and charger heat up during the charging process. That is normal and not a malfunction.
- Rapid flashing of the two LEDs (> 2 Hz) when charging commences indicates a charging error (e.g. maximum charging time exceeded, voltages or temperatures outside permitted ranges or a short circuit). Disconnect the charger from the mains and remove the battery. Ensure that the above temperature conditions are met and then restart the charging process. Please contact your dealer, the Leica representative in your region or Leica Camera AG if the problem persists.
- Rechargeable lithium-ion batteries generate power by way of internal chemical reactions. These reactions are influenced by ambient temperature and humidity. Do not expose the battery to extreme temperatures (high or low) for extended periods of time (e.g. in a parked car in the summer or winter) to ensure a maximum service life.
- However, every battery has its limits – even in optimal conditions! After several hundred charging cycles, the operating times will get significantly shorter.
- The replaceable battery supplies power to a backup battery, which is permanently installed in the camera. This backup battery retains the date and time for some weeks. Once the backup battery is depleted, it must be replenished by inserting a charged

main battery. The time and date will have to be set again after a full depletion of both batteries.

- As the battery capacity deteriorates or if using an older battery, warning messages may appear and some functions may be restricted or blocked entirely.
- Always remove the battery if the camera will not be used for an extended period of time. Make sure to switch the camera off via the main switch before removing the battery. Leaving the battery in the camera will result in a deep discharge after a few weeks. Voltage levels will decrease significantly, as the camera uses a low idle current to maintain settings.
- Dispose of damaged batteries in accordance with the relevant regulations at an approved collection point for proper recycling.
- The date of manufacture can be found on the battery. The date format is week/year.

## MEMORY CARD

- The range of available SD/SDHC/SDXC cards on the market is too extensive for Leica Camera AG to test for compatibility and quality. Generally, any type of memory card may be used without any damage to the camera or memory card. As some “no name” cards may not fully comply with the SD/SDHC/SDXC standards, Leica Camera AG cannot provide any guarantee of function.
- We recommend formatting memory cards from time to time, as fragmented residual data from deleted files may block some of the storage capacity.
- Generally, it is not necessary to format (initialize) memory cards that have been previously used. Formatting will, however, be necessary if you insert an unformatted memory card or a card that was formatted in another device (e.g. a computer) for the first time.

- We recommend backing up your data on a PC, because electro-magnetic fields, static electricity and any damage to the memory card or camera defects may result in irretrievable damage or loss of your data.
- SD, SDHC, and SDXC memory cards come with a write protection slider to prevent accidental overwriting. This slider is located on the non-beveled side of the card. All data on the card is protected when the slider is set to its lower position, marked LOCK.
- All data stored on the memory card will be lost during formatting. Formatting will not be prevented by a deletion protection set for individual pictures.

## SENSOR

- Any dust or dirt particles stuck to the glass cover of the sensor may result in noticeable dark stains or specks on the pictures (in system cameras). Alternatively, send your camera to the Leica Customer Care department for sensor cleaning (see p. 298). This service is not part of the warranty offering and will therefore incur charges.

## DATA

- All data, including personal information, may be changed or deleted due to incorrect or accidental operation, static discharge, accidents, malfunctions, repairs and other measures.
- Please note that Leica Camera AG does NOT accept liability for direct or consequential damage due to the manipulation or destruction of data and personal information.



## FIRMWARE UPDATE

Leica is continuously working on the further improvement and optimization of Leica SL2-S. As digital cameras have many functions that are controlled electronically, improvements and enhancements to the functions can be installed on the camera retroactively. Leica releases so-called firmware updates at irregular intervals. Cameras are always supplied ex works with the latest firmware installed or you can download the latest version from our website yourself and transfer it to your camera.

You will receive a newsletter informing you of the availability of a new firmware update if you register your camera on the Leica Camera homepage.

Visit the download section or the “Customer Area” for information about how to register or how to get firmware updates for your Leica SL2-S. Additionally, you can find information about changes or additions to the manual at: <https://club.leica-camera.com>

Leica releases firmware updates for lenses at irregular intervals. You can download any new firmware version from our homepage and transfer it to your lens. Please see p. 259 for more information.

Select the menu item **Camera Information** (see p. 259) to check whether your camera and lenses are running the latest firmware version.

## WARRANTY

In addition to your statutory warranty rights regarding your dealer, you will receive an additional Leica Camera AG product warranty valid from the date of purchase at an authorized Leica retailer. Previously, the product warranty was included with the product in the packaging. From now on, the product warranty will only be available online as a new service. You will be able to review the warranty conditions for your product at any time, without having to search for the document. Please note that this new policy applies only for products that are no longer delivered with a hardcopy product warranty included in the packaging. Any products still delivered with the warranty document in the packaging remain governed exclusively by that document. For more information regarding the warranty scope, warranty services and limitations, please visit: <https://warranty.leica-camera.com>

**Leica SL2-S comes with splash water and dust protection.**

The camera was tested under controlled laboratory conditions and is classes as IP54 in accordance with DIN EN 60529. Please note: The splash water and dust protection coating is not permanent and will diminish over time. Please read the section on “Care/Storage” for detailed instructions on how to clean and dry the camera. The warranty does not cover liquid damage. Any attempt to open the camera casing by an unauthorized retailer or service partner will cause an immediate expiration of the splash water and dust warranty.

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**Definition of the various categories of information found in this manual****Note**

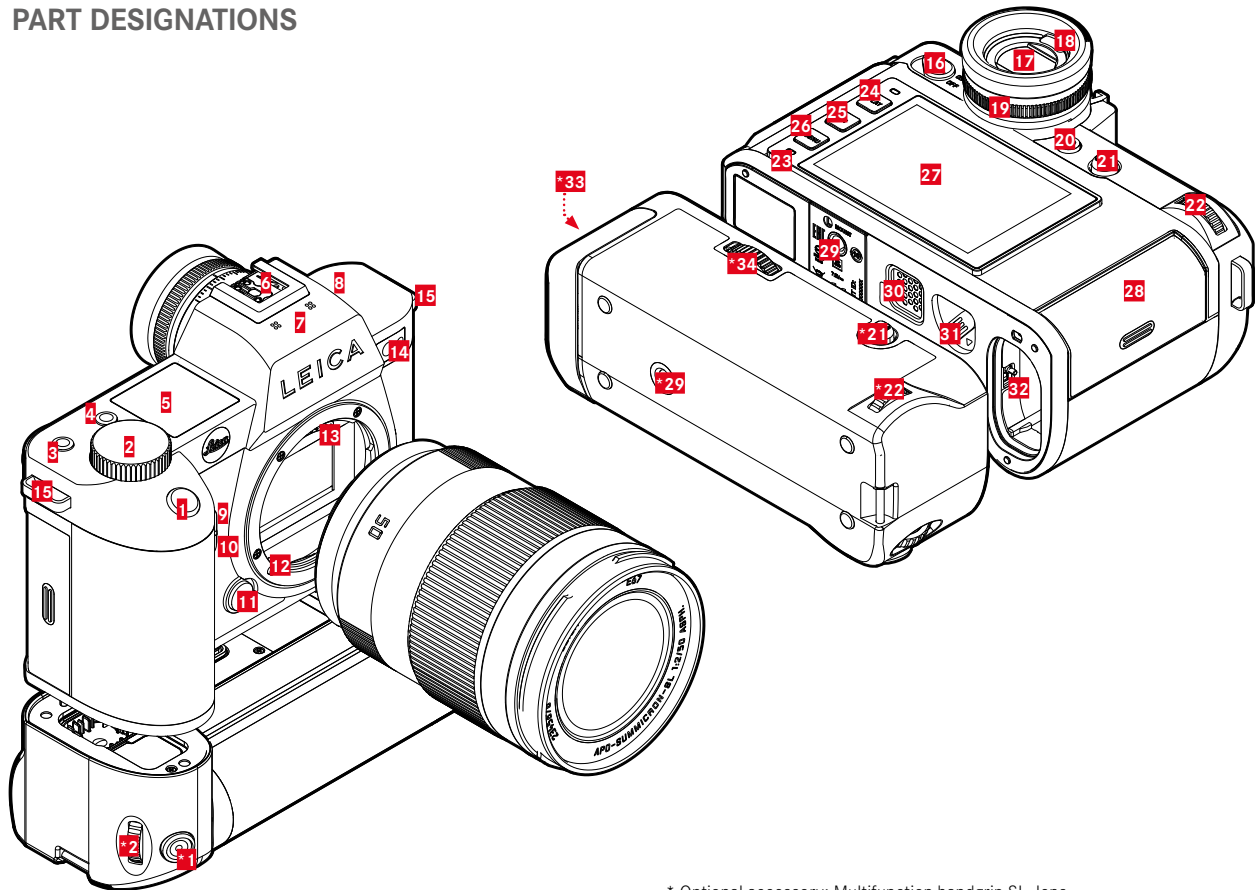
Additional information

**Important**

Failure to comply with instructions may result in damage to the camera, the accessories or the recordings

**Attention**

Non-compliance may result in personal injury



\* Optional accessory: Multifunction handgrip SL, lens



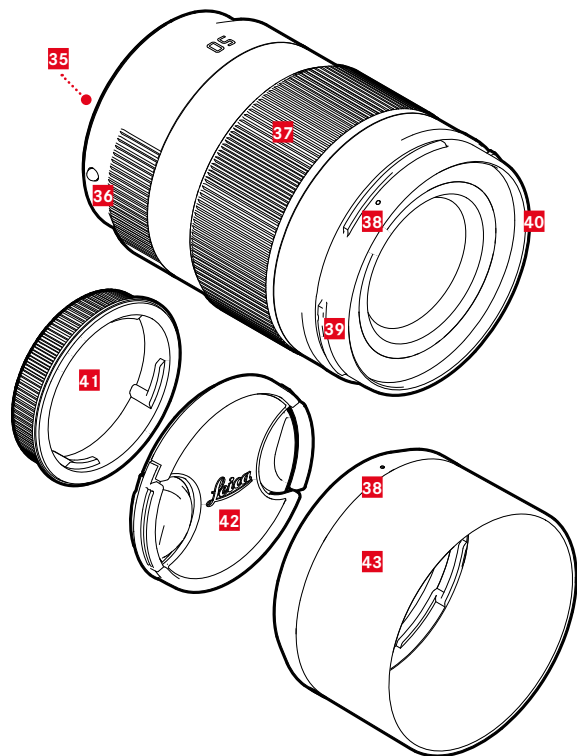
## LEICA SL2-S

- 1** Shutter button
- 2** Front dial
- 3** Function button
- 4** Function button
- 5** Top display
- 6** Accessory shoe
- 7** Microphone
- 8** Speaker
- 9** Function button
- 10** Function button
- 11** Lens release button
- 12** Leica L bayonet
- 13** Contact strip
- 14** Self-timer LED / AF assist lamp / exposure metering sensor
  
- 15** Strap lugs
- 16** Main switch
- 17** Viewfinder eyepiece
- 18** Eye sensor
- 19** Diopter setting wheel
- 20** Function button
- 21** Joystick
- 22** Thumbwheel
- 23** Status LED
- 24** **PLAY** button
- 25** **FN** button
- 26** **MENU** button
- 27** LCD panel

- 28** Memory card slot
- 29** Tripod thread
- 30** Contact for multifunction handgrip
- 31** Battery release lever
- 32** Battery compartment

## MULTIFUNCTION HANDGRIP SL

- \*1** Shutter button
- \*2** Front dial
- \*21** Joystick
- \*22** Thumbwheel
- \*29** Tripod thread
- \*33** Handgrip-integrated battery compartment
- \*34** Handgrip lock



## LENS\*

- 35** Contact strip
- 36** Alignment points for lens replacement
- 37** Focus ring  
poss. zoom ring
- 38** Alignment point for lens hood mounting
- 39** Male bayonet for lens hood
- 40** Internal thread for filters
- 41** Bayonet cover
- 42** Lens cap
- 43** Lens hood

\* Not included in the delivery package. Representative image. Technical designs may vary depending on included features.



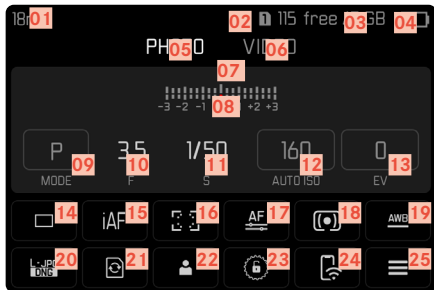


## DISPLAYS

The images displayed on the LCD panel and in the viewfinder are identical.

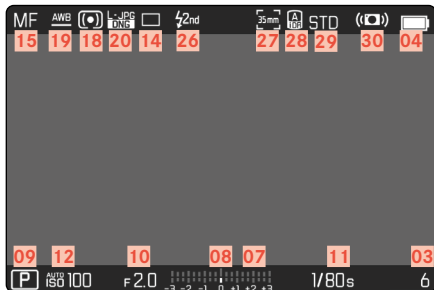
## PHOTO

### STATUS SCREEN



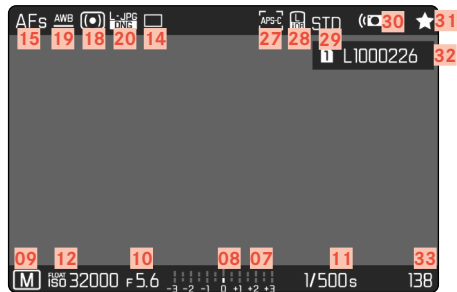
### WHEN TAKING A PICTURE

All displays/values refer to the actual settings.

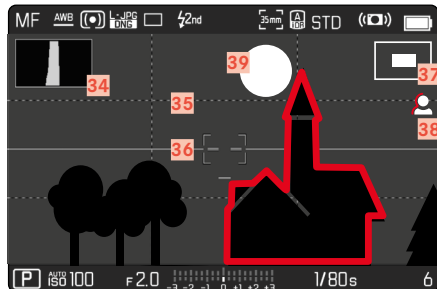


## IN REVIEW MODE

All displays/values refer to the displayed image.



### ACTIVATED Capture Assistants



- 01 Focal length
- 02 Memory card used
- 03 Remaining storage capacity
- 04 Battery capacity
- 05 Menu section **PHOTO**
- 06 Menu sections **VIDEO**
- 07 Light balance
- 08 Exposure compensation scale
- 09 Exposure mode
- 10 Aperture value
- 11 Shutter speed
- 12 ISO Sensitivity
- 13 Exposure compensation value
- 14 Shooting mode (**Drive Mode**)
- 15 Focus mode
- 16 Autofocus metering method
- 17 Autofocus settings
- 18 Exposure metering method
- 19 White balance mode
- 20 File format/compression level/resolution
- 21 Formatting a memory card
- 22 User profile
- 23 Locking/unlocking the setting wheels
- 24 Leica FOTOS
- 25 Main menu
- 26 Flash sync point
- 27 Aspect ratio (sensor)
- 28 Dark area optimization (**IDR**) enabled
- 29 Color rendering (**Film Style**)
- 30 Stabilization activated
- 31 Icon for marked picture
- 32 File name
- 33 File number of the image shown
- 34 Histogram
- 35 Grid lines
- 36 Level gauge
- 37  Display of cropped section size and position  
(only visible for enlarged sections)
- 38 Focus peaking  
(identification of in sharp edges in the object)
- 39 Clipping / Zebra



- 40 Focal length
- 41 Memory card used
- 42 Remaining storage capacity
- 43 Battery capacity
- 44 Menu section PHOTO
- 45 Menu sections VIDEO
- 46 Light balance
- 47 Exposure compensation scale
- 48 Microphone recording level
- 49 Recording time (timecode)
- 50 Exposure mode
- 51 Aperture value
- 52 Shutter speed  
(Cine: shutter angle)
- 53 ISO Sensitivity  
(Cine: ASA indication)
- 54 Exposure compensation value
- 55 Focus mode
- 56 Autofocus metering method
- 57 Exposure metering method
- 58 White balance mode
- 59 File format/compression level/resolution
- 60 Recording level
- 61 Headphone volume
- 62 User profile
- 63 Locking/unlocking the setting wheels
- 64 Leica FOTOS
- 65 Main menu
- 66 Dark area optimization (iDR) enabled
- 67 Color rendering (Video Style)
- 68 Indicates recording in progress
- 69 Stabilization activated
- 70 Icon for marked picture
- 71 File name
- 72 File number of the image shown
- 73 Video editing function
- 74 Exiting video playback
- 75 Current time of the playback
- 76 Playback status bar
- 77 Playback volume

## DISPLAYS IN THE TOP DISPLAY

### Home screen



### DEFAULT VIEW



### MODE CHANGE








- 78 Camera name
- 79 Date
- 80 Time
- 81 Handgrip battery capacity
- 82 Camera battery capacity
- 83 Exposure mode
- 84 Set flash exposure compensation
- 85 Program shift
- 86 Aperture value
- 87 Shutter speed  
(Cine: shutter angle)
- 88 ISO Sensitivity  
(Cine: ASA indication)
- 89 Memory card used
- 90 Remaining storage capacity
- 91 Leica FOTOS
- 92 GPS
- 93 USB charging function
- 94 Depth of field threshold values
- 95 Sharp distance focus



## CHARGE STATUS INDICATOR ON THE LCD PANEL

The battery charge status is displayed in the status screen and in the header line at the top right.

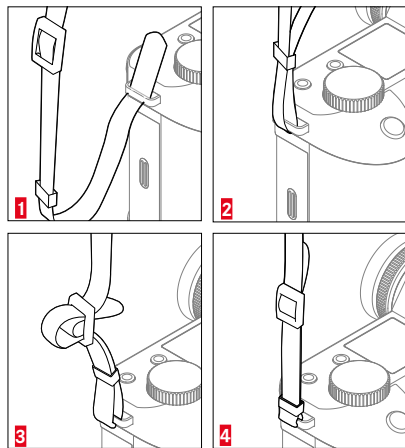


Display	Charge status
	Approx. 75 - 100%
	Approx. 50 - 75%
	Approx. 25 - 50%
	Approx. 0 - 25%
	Approx. 0% The battery needs charging or replacing



## PREPARATION

### ATTACHING THE CARRY STRAP

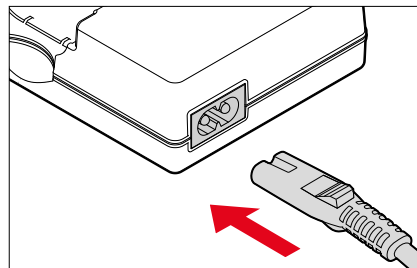


#### Attention

- Once you have attached the carry strap, please make sure that the clips are mounted correctly to prevent the camera from falling.

### PREPARING THE CHARGER

Use the mains cable with the matching regional plug to connect the charger to mains electricity.



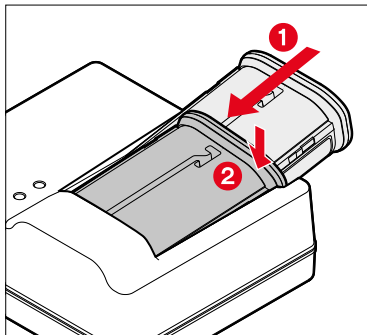
#### Note

- The charger will automatically adapt to local mains voltage.

## CHARGING THE BATTERY

The camera is powered by a lithium-ion battery.

### INSERTING THE BATTERY IN THE CHARGER

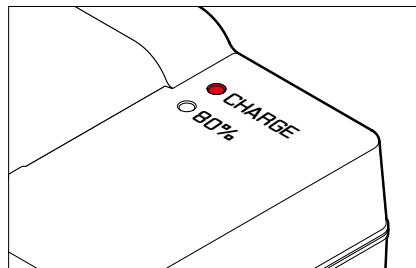


- ▶ Slide the battery into the charger with the groove facing up until the contacts meet
- ▶ Press down on the battery until you can hear and feel it clicking into place
- ▶ Ensure that the battery is fully inserted into the charger

### REMOVING THE BATTERY FROM THE CHARGER

- ▶ Tilt the battery up and lift it out at an angle

## CHARGE STATUS INDICATORS ON THE CHARGER



The status LED indicates a correct charging process.

Display	Charge status	Charge time*
<b>CHARGE</b> flashes green	Battery is charging	
<b>80%</b> lights up orange	80%	Approx. 2 h
<b>CHARGE</b> continuous green light	100%	Approx. 3.5 h

Disconnect the charger from mains electricity when the charging process is complete. There is no risk of overcharging.

\* for a completely discharged battery



## CHARGING VIA USB

The rechargeable battery in the camera can be automatically charged when the camera is connected to a computer or another suitable power source via USB cable.

Factory setting: **On**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **USB Charging**
- ▶ Select **On/Off**

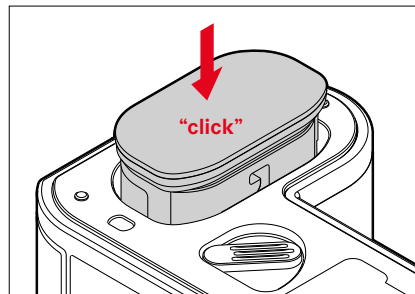
### Notes

- The camera will only charge while it is switched off. The charging process will be interrupted as soon as the camera is switched on. The camera will be displayed as a USB storage medium if an SD card is inserted (see p. 100).
- The charging will start automatically.

## INSERTING/REMOVING THE BATTERY

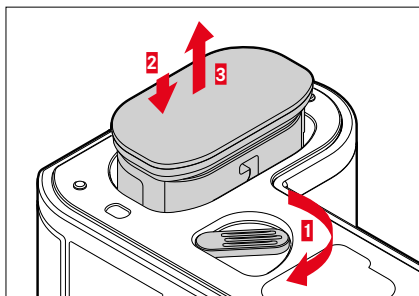
- ▶ Ensure that the camera is switched OFF (see p. 50)

### INSERTION



- ▶ Insert the battery into the slot with the groove pointing towards the LCD panel and gently push until you hear and feel it clicking into place

## REMOVAL



- ▶ Turn the battery release lever
  - Battery is pushing out slightly.
- ▶ Press down on the battery lightly
  - The battery unlocks and pushes out fully.
- ▶ Removing the battery

### Important

- Removing the battery while the camera is switched on may result in the loss of custom settings or damage to the memory card.

## INSERTING/REMOVING THE MEMORY CARD

Leica SL2-S offers slots for two memory cards. There are various options for use, see p. 96.

The camera will save exposures to an SD (Secure Digital), SDHC (High Capacity) or SDXC (eXtended Capacity) memory card.

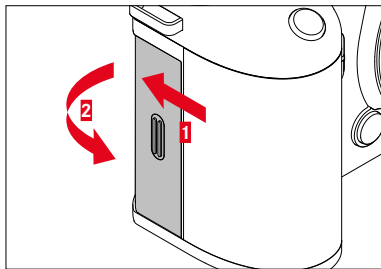
### Notes

- SD/SDHC/SDXC memory cards are available from various suppliers in a range of sizes and with differing read/write speeds. Memory cards with high storage capacities and high read/write speeds offer quick storage and rendering.
- The memory card may not be supported (capacity) or will have to be formatted in the camera before first use (see p. 96). The camera will in that case display a relevant message. Please see the section “Technical Data” for information about supported cards.
- Check the memory card for correct alignment if you are having difficulties inserting it into the camera.
- See p. 10 and p. 13 for additional information.
- Video shootings require a high write speed.



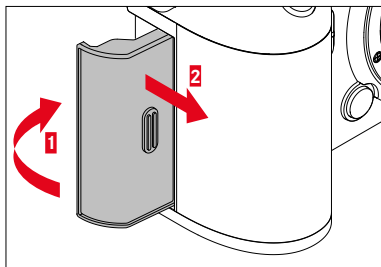
- ▶ Ensure that the camera is switched OFF (see p. 50)

### OPENING THE COVER OVER THE MEMORY CARD SLOT



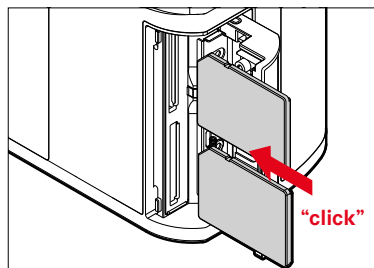
- ▶ Slide the cover as shown in the illustration until you hear a click
  - The cover lifts automatically.

### CLOSING THE COVER OVER THE MEMORY CARD SLOT



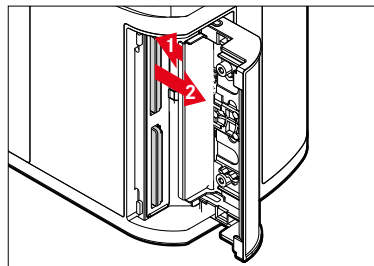
- ▶ Close and hold down the cover
- ▶ Slide the cover as shown in the illustration until it audibly clicks into place

### INSERTION



- ▶ Push the memory card into the slot until you hear and feel it clicking into place
  - The beveled corner of the card must be at the top left.

### REMOVAL



- ▶ Push down on the card until you hear a click
  - The card pushes out slightly.
- ▶ Remove the memory card

## LENS

### COMPATIBLE LENSES

Sophisticated optical systems guarantee the excellent imaging performance of the SL lenses. In the design phase for the optics, a homogeneous performance across all focal lengths, aperture and focus settings is a high priority. That is how SL lenses can be used for optimally creative results in any situation.

Leica M and R lenses can also be used in conjunction with Leica M/R L adapters.

### L-MOUNT LENSES

In addition to Leica SL lenses, the Leica SL2-S can also accommodate Leica TL lenses with full functionality via the L bayonet. The camera will automatically switch to the APS-C format when a TL lens is attached. A variety of compatible lenses from manufacturers of the L-Mount Alliance are also available.

### EXPOSURE METERING AND EXPOSURE CONTROL USING VARIO LENSES

Some Leica TL and SL Vario lenses have a variable speed, which means that the effective aperture opening depends on the configured focal length. Make sure to set the desired focal length before storing the meter value or changing the shutter speed/aperture combination to prevent incorrect exposure. Please read the sections on “Exposure” starting on page 132 for more information. Make sure that the aperture setting on the flash unit matches the camera aperture if you are using a non-system compatible flash unit.





## LEICA M AND R LENSES

Leica M and R lenses can be attached via Leica M or R L adapters. There are lens profiles stored in the camera, which allow the following functions:

- ▶ The flash exposure and flash reflector controls utilize the stored lens data (see “Compatible flash units”).
- ▶ The lens data is furthermore written to the Exif data of the recordings, provided the lens is relevantly encoded. The focal length of the lens is additionally displayed when rendering the extended image data.

The camera will automatically select the appropriate lens type settings if the Leica M lens used comes with 6-bit encoding, or the Leica R lens has an ROM contact strip. You will have to enter the lens type manually if the lenses do not have that feature.

### Using automatic detection

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Lens Profiles**
- ▶ Activate automatic lens detection (**Auto**) or deactivate the feature (**Off**)

### Setting the lens type manually

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Lens Profiles**
- ▶ Select **M-Lenses** or **R-Lenses**

## Sorting the lens type lists

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Lens Profiles**
- ▶ Select **M-Lenses** or **R-Lenses**
- ▶ Select **Edit List of M-Lenses** or **Edit List of R-Lenses**
- ▶ Activate (**On**) or deactivate (**Off**) the lens types you will be using



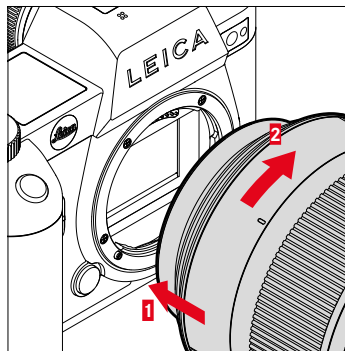
## CHANGING THE LENS

### Important

- Make sure to always have a lens or the camera bayonet cover attached to prevent dust or other foreign bodies penetrating the camera.
- That is why you should always replace lenses quickly and in a dust-free environment.

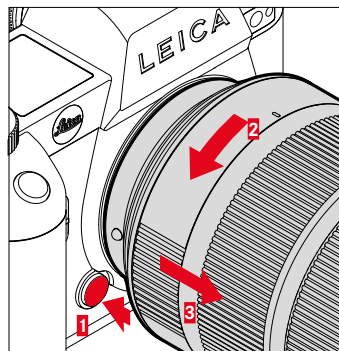
### L-MOUNT LENSES

#### ATTACHING THE LENS



- ▶ Ensure that the camera is switched OFF (see p. 50)
- ▶ Hold the lens by the fixed ring
- ▶ Position the alignment points on the lens opposite the release button on the camera housing
- ▶ Attach the lens in this position
- ▶ Turn the lens clockwise until you hear and feel it click into place

#### DETACHING THE LENS



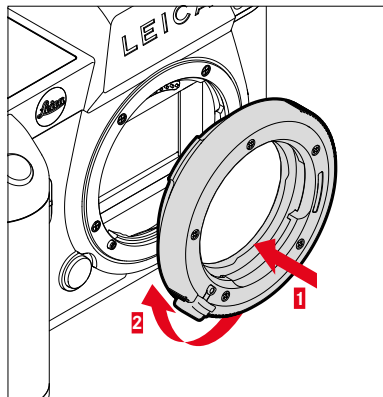
- ▶ Ensure that the camera is switched OFF
- ▶ Hold the lens by the fixed ring
- ▶ Press and hold the release button on the camera housing
- ▶ Turn the lens counter-clockwise until the alignment point is opposite the release button
- ▶ Remove the lens



## OTHER LENSES (e.g. Leica M lenses)

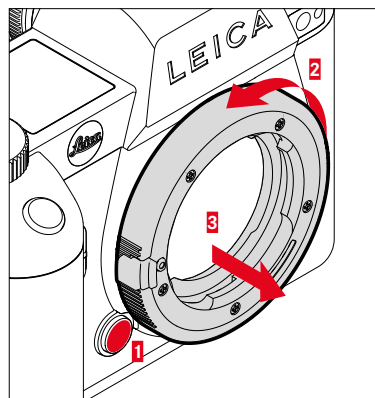
Other lenses can be used by inserting an adapter for L bayonets (e.g. Leica-M adapter L).

### ATTACHING THE ADAPTER



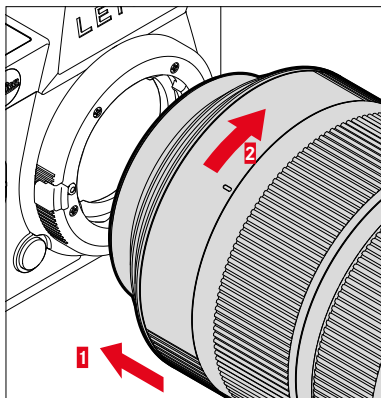
- ▶ Ensure that the camera is switched OFF (see p. 50)
- ▶ Position the alignment point on the adapter opposite the alignment point on the camera housing
- ▶ Attach the lens in this position
- ▶ Turn the adapter clockwise until you hear and feel it click into place
- ▶ Attach the lens immediately

### DETACHING THE ADAPTER



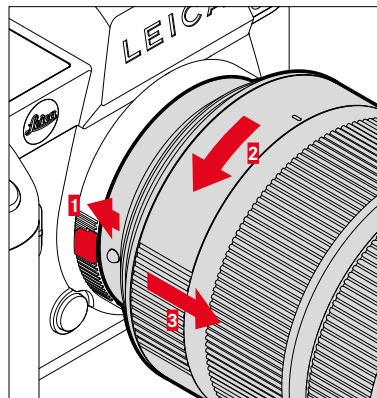
- ▶ Ensure that the camera is switched OFF
- ▶ Detaching the lens
- ▶ Press and hold the release button on the camera housing
- ▶ Turn the adapter counter-clockwise until the alignment point is opposite the release button
- ▶ Remove the adapter

## ATTACHING THE LENS TO THE ADAPTER



- ▶ Ensure that the camera is switched OFF (see p. 50)
- ▶ Hold the lens by the fixed ring
- ▶ Position the alignment point on the lens opposite the alignment point on the adapter
- ▶ Attach the lens in this position
- ▶ Turn the lens clockwise until you hear and feel it click into place

## DETACHING THE LENS FROM THE ADAPTER



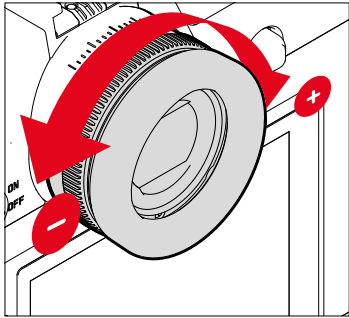
- ▶ Ensure that the camera is switched OFF
- ▶ Hold the lens by the fixed ring
- ▶ Press and hold the release button on the adapter
- ▶ Turn the lens counter-clockwise until its alignment point is opposite the release button
- ▶ Remove the lens



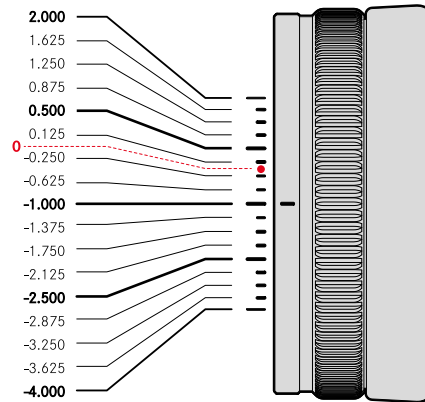


## DIOPTER SETTINGS

The viewfinder has a diopter setting function with a range between -4 and +2 diopter to allow glasses wearers the use of the camera without eyeglasses (diopter compensation).

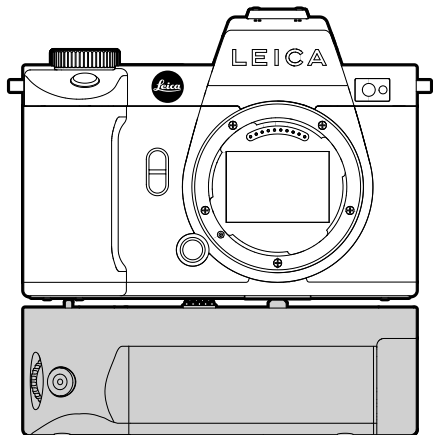


- ▶ Look through the viewfinder
- ▶ Aiming at and focusing on an object
- ▶ Turn the diopter setting wheel until you see the image in the viewfinder and the displays in perfect focus



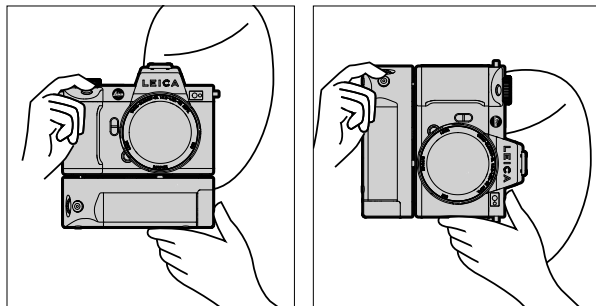
## MULTIFUNCTION HANDGRIP SL (optional accessory)

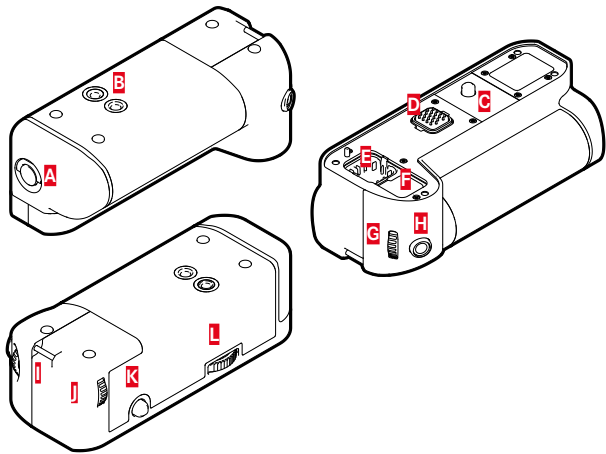
The Multifunction Handgrip SL is an optional accessory and comes with additional operating elements (shutter button, joystick, thumb-wheel and front dial) positioned specifically for easy portrait photography. The handgrip is therefore particularly useful for one-handed photography. It also offers space for a second rechargeable battery.



## PHOTOGRAPHY WITH THE HANDGRIP

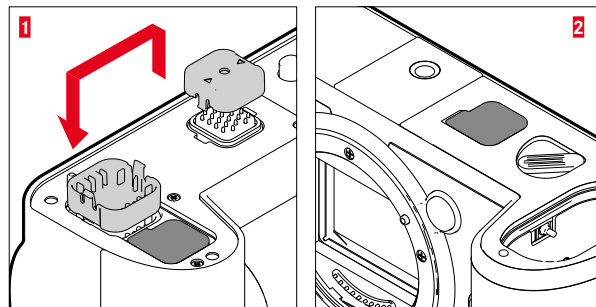
The operating elements of the handgrip are positioned in such a way as to be in easy reach when using the camera for portrait photography.



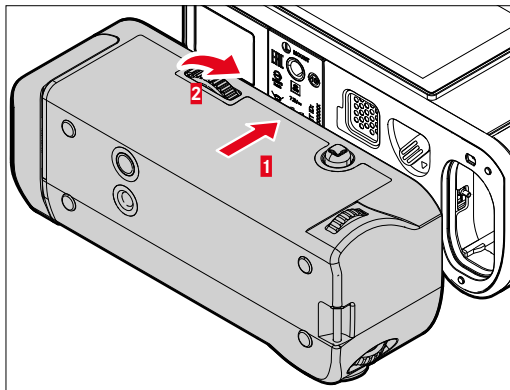


- A** Locking toggle
- B** Tripod thread
- C** Attachment screw
- D** Interface with the camera
- E** Storage compartment for the contact cover of the handgrip
- F** Storage compartment for the contact cover of the camera
- G** Front dial
- H** Shutter button
- I** Strap lug
- J** Thumbwheel
- K** Joystick
- L** Handgrip lock

## ATTACHING THE HANDGRIP



- ▶ Squeeze the contact cover of the handgrip on the two sides marked with triangles and lift it off
- ▶ Store the contact cover in its designated compartment in the handgrip
- ▶ Remove the contact cover in the base of the camera housing
- ▶ Store the contact cover in its designated compartment in the handgrip



- ▶ Align the handgrip with the base of the camera
  - Make sure not to damage the contacts.
- ▶ Turn the handgrip lock to the right and hand tighten

#### **Important**

- Make sure to check regularly whether the connection is still tight when using the camera with the handgrip attached and re-tighten it as needed.

#### **DETACHING THE HANDGRIP**

- ▶ Turn the handgrip lock to the left to unlock the connection
  - Make sure to hold the camera and the handgrip securely while doing so.
- ▶ Replace both cover caps over the connections

#### **Important**

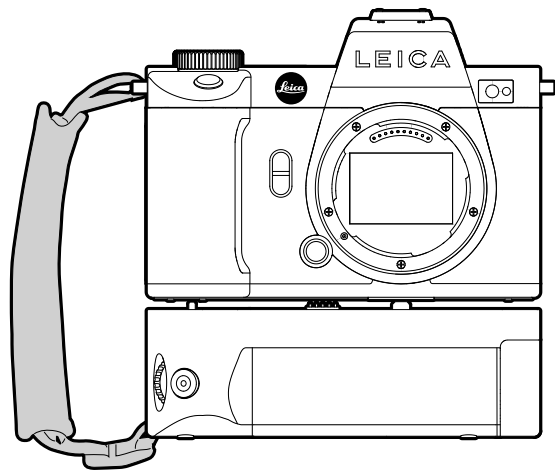
- Make sure that the contact covers are securely in place on the camera and on the handgrip whenever the handgrip is not attached to the camera. The highly sensitive contacts could otherwise easily be damaged.





## MOUNTING THE WRIST LOOP/CARRY STRAP ON THE MULTIFUNCTION HANDGRIP

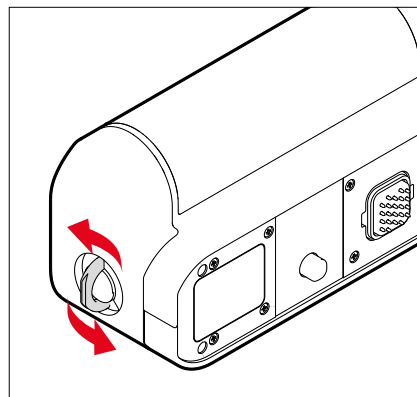
The high quality wrist loop is available as an optional ergonomic accessory for the handgrip to ensure more stability for the camera. The hand loop is recommended in particular for landscape photography.



When using the handgrip for portrait photography for extended periods of time, we recommend attaching the carry strap on the strap lug of the camera on the right-hand side and on the strap lug of the handgrip. This will always maintain the camera in the correct position. See p. 34 for instructions on how to attach the carry strap.

## CHANGING THE BATTERY

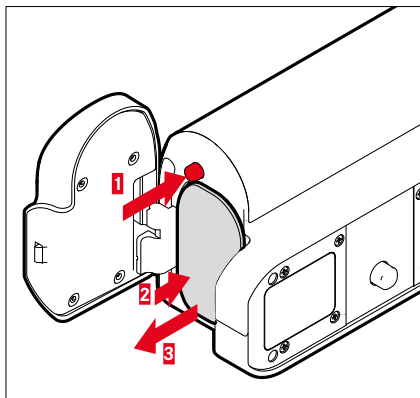
The multifunction handgrip offers space for a second rechargeable battery. This will significantly increase operating time.



- ▶ Click up the locking toggle
- ▶ Turn the locking toggle in anti-clockwise direction
  - The battery cover lifts automatically.

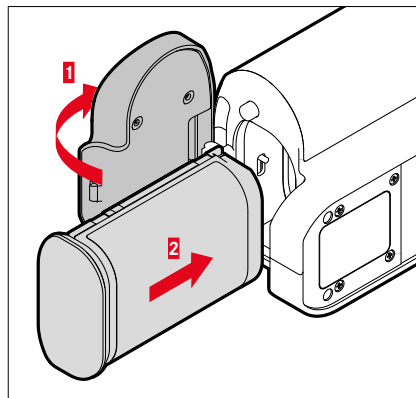


## REMOVING THE BATTERY



- ▶ Push down the ejector pin
  - Battery is pushing out slightly.
- ▶ Press down on the battery lightly
  - The battery unlocks and pushes out fully.
- ▶ Removing the battery

## INSERTING THE BATTERY



- ▶ Insert the battery into the slot with the groove pointing towards until you hear and feel it clicking into place

## CLOSE THE BATTERY COMPARTMENT

- ▶ Close the cover over the battery compartment
  - It will click to signify it is locked.
- ▶ Click down the locking toggle

## Note

- The camera must have a battery with at least minimal charge inserted to utilize a rechargeable battery in the handgrip.



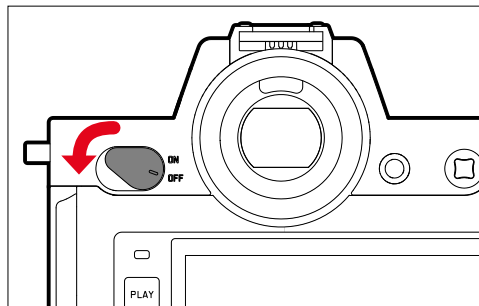
## CAMERA OPERATION

### CONTROL ELEMENTS

#### MAIN SWITCH

The main switch switches the camera on and off.

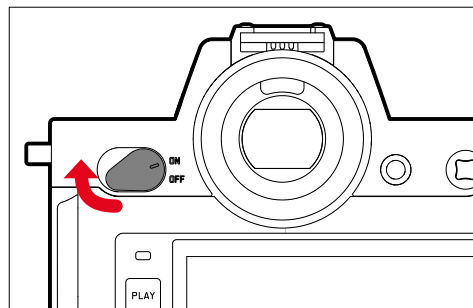
#### SWITCHING THE CAMERA ON



#### Notes

- Once switched on, the camera will be ready to use after approx. 1 s.
- The LED lights up briefly and the displays in the viewfinder appear.

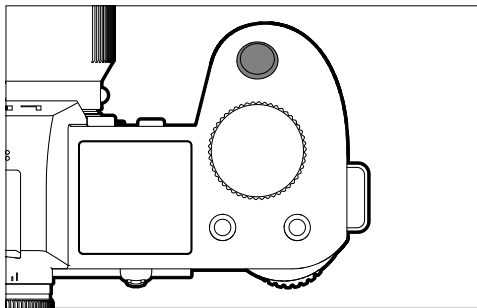
#### SWITCHING THE CAMERA OFF



#### Note

- The function **Auto Power Off** (see p. 82) deactivates the camera automatically if no operation occurs within a preset time. Use the main switch to deactivate the camera if this function is **Off** to prevent inadvertent exposures and battery discharge when the camera is not in use.

## SHUTTER BUTTON



The shutter button works in two stages.

**Tapping** (= Pressing the shutter button to the 1st pressure point)

- Activating the camera electronics and displays
- Exposure lock (metering & saving):
  - AF mode: range measurement (AF-L)
  - (semi) automatic exposure mode: exposure metering (AE-L)
- Canceling a running self-timer delay time
- Return to shooting mode
  - from review mode
  - from menu control
  - from standby mode

## Press down fully

- Shutter release
  - The data is then transferred to the memory card.
- Starting a video shooting
- Starting a preselected self-timer delay time
- Starting a continuous shooting or interval shooting

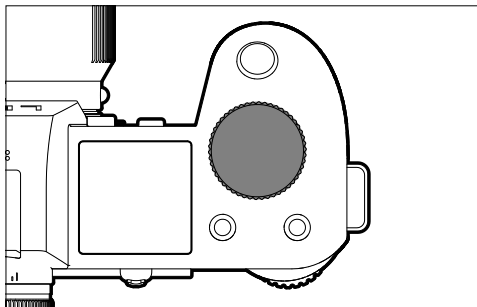
## Notes

- Press down the shutter button in a smooth motion until you hear the click of the shutter to prevent camera shake.
- The shutter button remains locked:
  - if the memory card inserted and/or the internal buffer memory are (temporarily) full
  - if the battery has exceeded its performance limits (capacity, temperature, age)
  - if the memory card is write-protected or damaged
  - if the sensor is too hot



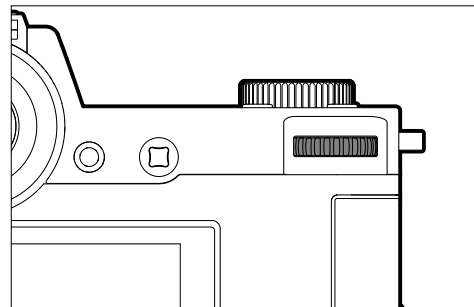


## FRONT DIAL



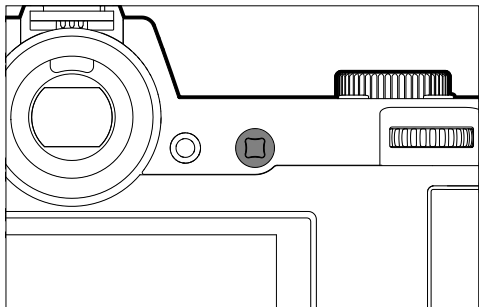
- Menu navigation
- Setting the shutter speeds
- Exposure compensation value selection
- Enlarging/reducing viewed pictures

## THUMBWHEEL



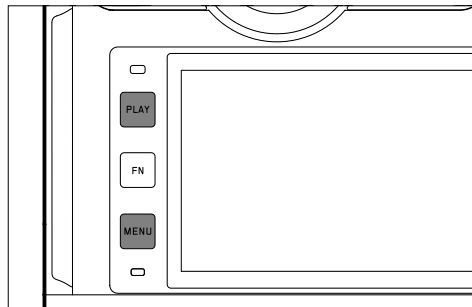
- Menu navigation
- Accessing the submenu
- Applying menu settings
- Setting selected menu items/functions
- Setting the aperture value
- Exposure compensation value selection
- Setting the program shift
- Scroll through the gallery
- Playback of video recordings
- Confirming the prompts

## JOYSTICK



- Menu navigation
- Accessing the submenu
- Applying menu settings
- Setting selected menu items/functions
- Scroll through the gallery
- Shifting the metering field
- Exposure lock
- Playback of video recordings
- Confirming the prompts

## PLAY BUTTON/MENU BUTTON



### PLAY BUTTON

- Activation and deactivation of the (continuous) review mode
- Return to full-screen display

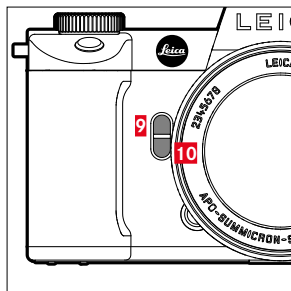
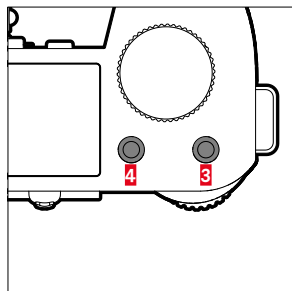
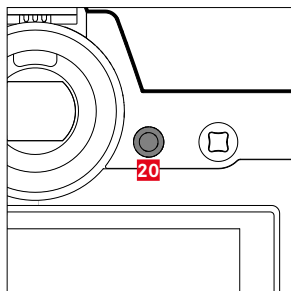
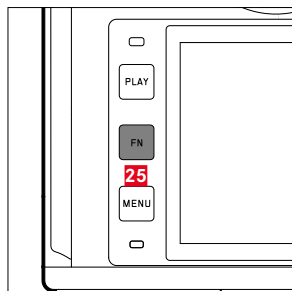
### MENU BUTTON

- Accessing the menu (incl. status screen)
- Accessing the play menu
- Exiting the currently displayed (sub) menu





## FUNCTION BUTTONS



Direct access to various menus and functions. All function buttons can be custom configured (see p. 71).

FACTORY SETTINGS	
In shooting mode	In review mode
<b>FN button 25</b>	
Toggle info profiles	
<b>Function button 20</b>	
LCD panel/EVF switchover	
<b>Function button 4</b>	
Mode change (photo/video)	Marking/rating a shot
<b>Function button 3</b>	
- Photo: ISO	
- Video: ISO	
- (Cine: Exposure Index)	
<b>Function button 9</b>	
- Photo: Magnification	
- Video: Microphone Gain	
<b>Function button 10</b>	
Autofocus metering method	

## LCD PANEL (TOUCH SCREEN)

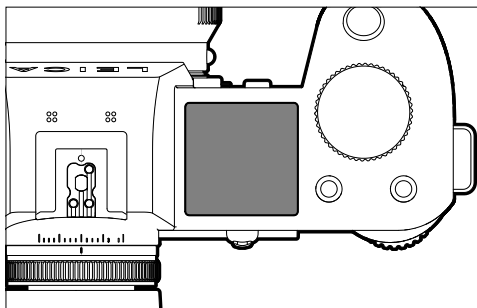


TOUCH CONTROL*		In shooting mode	In review mode
	“tap”	Shifting the AF metering field and focusing (while Touch AF is activated)	Selecting shots
	“double tap”	Resetting the AF metering field (while Touch AF is activated)	Enlarging/reducing viewed pictures
	“swipe”		Scroll through the gallery Shifts the enlarged image section
	“horizontal swipe” (full length)	Mode change (photo/video)	Scroll through the gallery
	“vertical swipe” (full length)	Switch to review mode	Switch to shooting mode
	“tap and hold”	Accessing the AF Quick Setting	
	“two-finger pinch” “two-finger spread”	Changing the size of the AF metering field (using the AF modes <b>Field</b> and <b>Eye/Face/Body Detection</b> )	Enlarging/reducing viewed pictures
	“swipe and hold” “hold and swipe”		Continuous scrolling

\* A light touch is enough, don't apply pressure.



## TOP DISPLAY

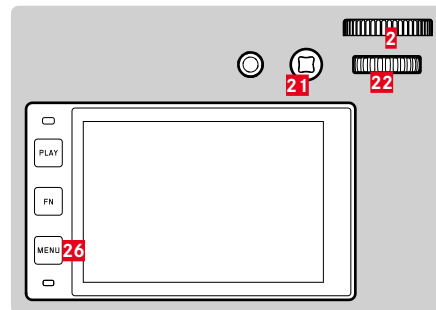


- Display of the active mode
- Display of image data
- Display of camera information

## MENU CONTROL

### CONTROL ELEMENTS

The following elements are used for menu control.



- 21** Joystick
- 2** Front dial
- 26** MENU button
- 22** Thumbwheel



## MENU SECTIONS

The following menu sections are available: Status Screen, **Main Menu** and **Favorites**.

Status screen:

- quick access to the most important settings

**Favorites:**

- your custom list (see p. 70 for details on how to manage this list)
  - The favorites menu can only be displayed if it has at least one menu item assigned.

**Main Menu:**

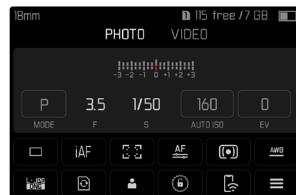
- offers access to all menu items
- contains various submenus

The currently active operating mode (Photo or Video) is highlighted in color in all menu areas.

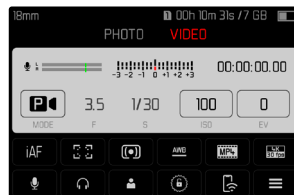
Section	PHOTO	VIDEO
Status screen	Dark background	Bright background
Favorites		
Main menu (top level)	Dark header line	Bright header line
Main menu (Submenus)		

## STATUS SCREEN

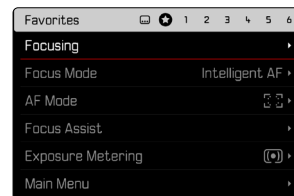
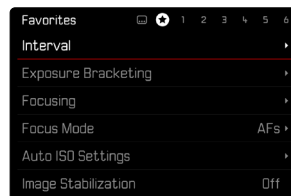
Photo



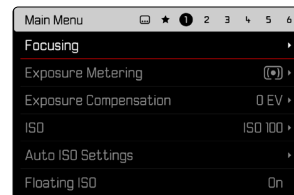
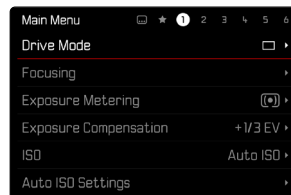
Video



## FAVORITES



## MAIN MENU





## SETTINGS IN PHOTO AND VIDEO MODE

The available settings depend on the operating mode (Photo or Video) currently in use.

- All menu items and their sub items available in the main menu **before** **User Profile** are mode-specific. That means that any changes made here, will only apply for the operating mode currently in use. Any menu items of the same name in the other operating mode will be unaffected. That includes settings for focusing, exposure metering or white balance.
- All settings and functions after that in the main menu (including **User Profile**) are available in both operating modes and have global effect. A setting selected in one of the modes will also apply to the other.

Settings and functions with global effect are:

- **User Profile**
- **Dial Lock**
- **Joystick Lock**
- **Display Settings**
- **Leica FOTOS**
- **Image Stabilization**
- **Panning Mode**
- **Format Card**
- **Camera Settings**
- **Camera Information**
- **Language**
- **Reset Camera**

## SWITCHING MENU SECTIONS

The status screen will always be displayed as the first menu section. The top level of the menu is organized into “pages”, which are displayed in the header line: Status screen, poss. Favorites menu (up to 2 pages), and several sections of the Main menu. You can switch between menu sections by scrolling through the pages. Alternatively, the status screen and the favorites menu offer access to the main menu as their respectively last menu item.

### Scrolling forward

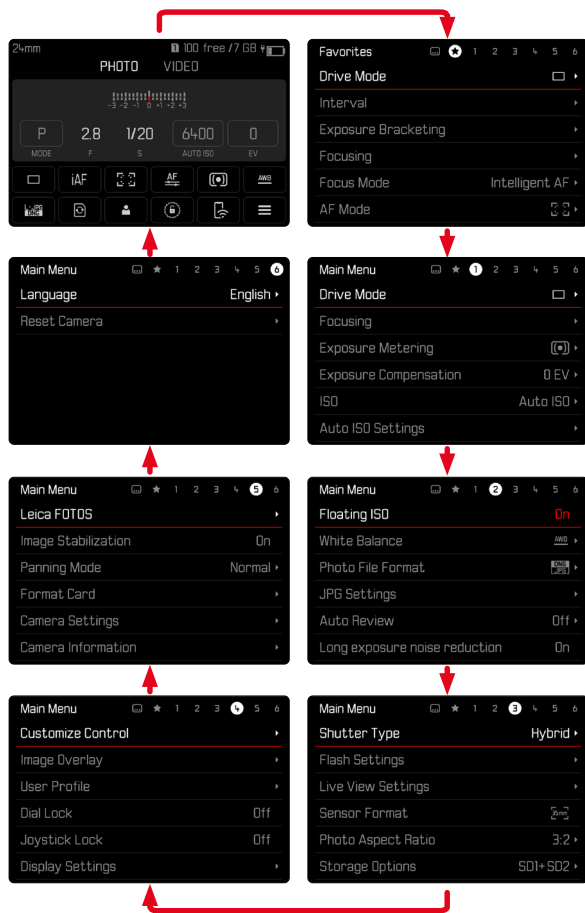
- ▶ Press the **MENU** button

or

- ▶ Turn the front dial in clockwise direction
  - The status screen will appear again after the last page of the main menu.

### Scrolling backward

- ▶ Turn the front dial in anti-clockwise direction
  - The last page of the main menu will appear again after the status screen.

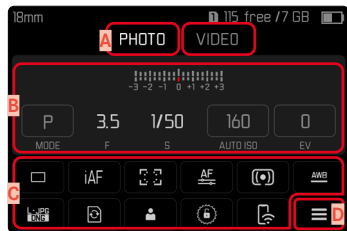




## STATUS SCREEN

The status screen offers an overview of the most important information regarding the current camera status and active settings.

It furthermore allows direct access to important settings. The status screen is optimized for touch control.



- A** Mode: photo/video (see p. 211)
- B** Exposure settings (see p. 132 and p. 235)
- C** Menu items
- D** Access to the main menu

## Notes

- Where touch control is not possible or not desirable (e.g. in EVF mode), the status screen can alternatively be controlled via the joystick and/or the thumbwheel.
- The settings become effective immediately.
- The framed control panels can be selected. Unframed values are added in automatically (depending on the active exposure mode).
- The available menu items in photo and video mode differ (see p. 28 and p. 30).

## SELECTING SETTINGS

Settings can be selected in various ways from within the status screen. The setting types vary from menu to menu.

- ▶ Tap the desired control panel
  - The relevant menu appears.

## DIRECT SETTINGS

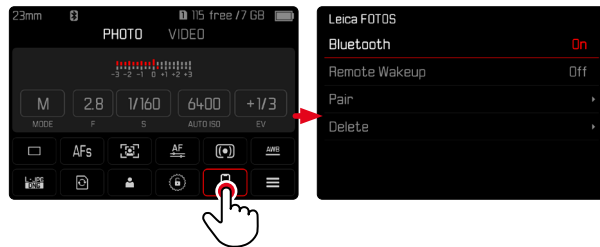
A version of the menu bar appears in the lower area of the status screen (see p. 66).



- ▶ Select the desired function directly or swipe

## ACCESSING A STANDARD SUBMENU

These menus behave as if they were accessed from within the main menu (see p. 63). Touch control is therefore unavailable. From there, you return to the status screen and not to the next higher menu item.

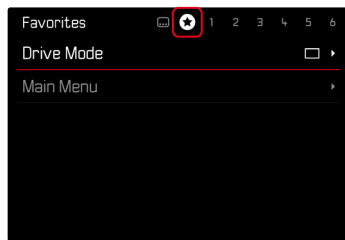


- ▶ Select the desired setting



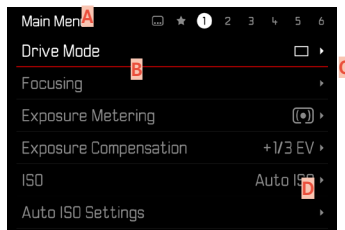
## FAVORITES MENU

The favorites menu offers quick access to the most frequently used menu items. It can contain up to 11 menu items. These can be assigned individually (see p. 70).



## MAIN MENU

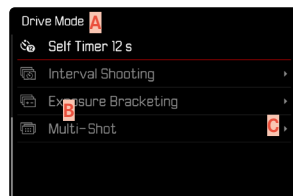
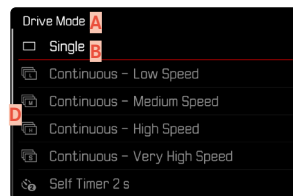
The main menu offers access to all settings. Most of these are organized in submenus.



- A** Menu sections: `Main Menu` and `Favorites`
- B** Menu item name
- C** Menu item setting
- D** Submenu reference

## SUBMENU

There are various types of submenus available. The following pages describe their operation.



- A** Current menu item
- B** Submenu item
- C** References to other submenus
- D** Scrollbar

## MENU NAVIGATION

### SCREEN BY SCREEN NAVIGATION

#### Scrolling forward

- ▶ Press the **MENU** button (repeatedly if needed)

or

- ▶ Turn the front dial in clockwise direction
  - The status screen will appear again after the last page of the main menu.

#### Scrolling backward

- ▶ Turn the front dial in anti-clockwise direction
  - The last page of the main menu will appear again after the status screen.

### LINE BY LINE NAVIGATION

(Function/function option selection)

- ▶ Press the joystick up/down

or

- ▶ Turn the thumbwheel (to the right = down, to the left = up)
  - Once the last menu item has been reached scrolling up or down, the display will automatically jump to the previous or next screen. The currently active menu section (Favorites, Main Menu) is not exited.

#### Note

- Some menu items can only be accessed under specific circumstances. The text in the relevant line is displayed in gray to signify the existence of a submenu.





## SHOW SUBMENU

- ▶ Press the joystick/thumbwheel
- or
- ▶ Press the joystick to the right

## CONFIRM SELECTION

- ▶ Press the joystick/thumbwheel
  - The screen image changes back to the active menu item. The set function variant is shown on the right in the relevant menu line.

### Note

- No confirmation is needed for the selection of **On** or **Off**. An automatic save is done.

## GO BACK ONE STEP

(Return to the superordinate menu item)

- ▶ Press the joystick to the left
  - This option is only available for list-type submenus.

## GO BACK TO TOP MENU LEVEL

- ▶ Press the **MENU** button 1x
  - The top level of the currently selected menu section is displayed.

## EXITING THE MENU

You can exit the menus and submenus at any time – with/without applying the settings selected there.

### Go to shooting mode

- ▶ Tap the shutter button

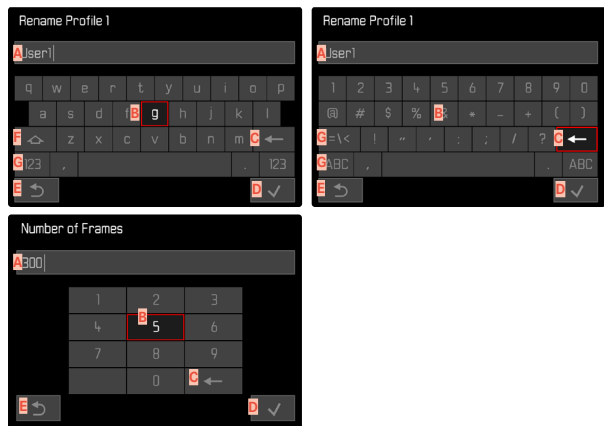
### Go to review mode

- ▶ Press the **PLAY** button



## SUBMENU

### KEYBOARD/NUMBER PAD



- A** Entry line
- B** Keyboard/Number pad
- C** “Delete” button (deletes the last character entered)
- D** “Confirm” button  
(to apply individual values and existing settings)
- E** Return to previous menu level
- F** Shift key (toggles between upper and lower case letters)
- G** Changing the character type

## SELECTING A BUTTON (ICON/FUNCTION BUTTON)

### Using button control

- ▶ Press the joystick in the relevant direction
    - The currently active button will be highlighted.
  - ▶ Press the joystick/thumbwheel
- or
- ▶ Turn the thumbwheel
    - The currently active button will be highlighted.
    - There will be an automatic jump to the next/previous line when the end/beginning of the line is reached.
  - ▶ Press the joystick/thumbwheel

### Using touch control

- ▶ Press the button of your choice

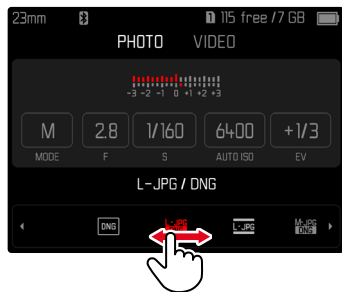
### SAVE

- ▶ Select button **D**

### CANCEL

- ▶ Select button **E**

## MENU BAR



### Using button control

- ▶ Press the joystick left/right

or

- ▶ Turn the thumbwheel

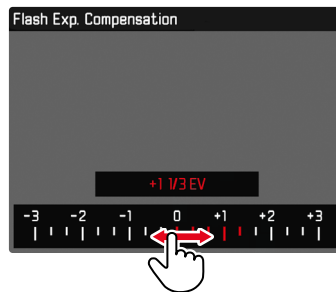
### Using touch control

- ▶ Select the desired function directly or swipe

### Notes

- The currently active setting displayed in the center is highlighted in red.
- The set value is displayed above the scale/below the menu bar.
- The following applies for direct access: The selected function requires no additional confirmation and will be active immediately.

## SCALE MENU



### Using button control

- ▶ Press the joystick left/right

or

- ▶ Turn the thumbwheel

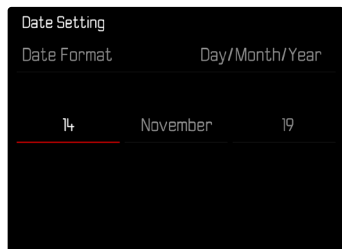
### Using touch control

- ▶ Select the desired setting directly or swipe

### Notes

- The currently active setting displayed in the center is highlighted in red.
- The set value is displayed above the scale/below the menu bar.

## DATE/TIME MENU



### Moving to the next settings field

- ▶ Press the joystick left/right

or

- ▶ Turn the thumbwheel

### Setting values

- ▶ Press the joystick up/down

### Saving and returning to superordinate menu item

- ▶ Press the joystick/thumbwheel

## COMBI MENU (AF PROFILES)



The setting of the individual menu items is done via a setting bar in the lower display area.

### Accessing individual menu items

- ▶ Press the joystick in the relevant direction

or

- ▶ Turn the thumbwheel

### Setting individual items

- ▶ Press the joystick/thumbwheel
  - The set value displayed next to the menu item is highlighted.

- ▶ Press the joystick left/right

or

- ▶ Turn the thumbwheel

### Applying the setting

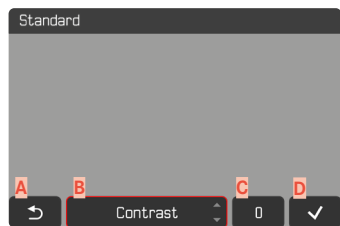
- ▶ Press the joystick/thumbwheel

### Returning to the superordinate menu item

- ▶ Press the joystick to the left



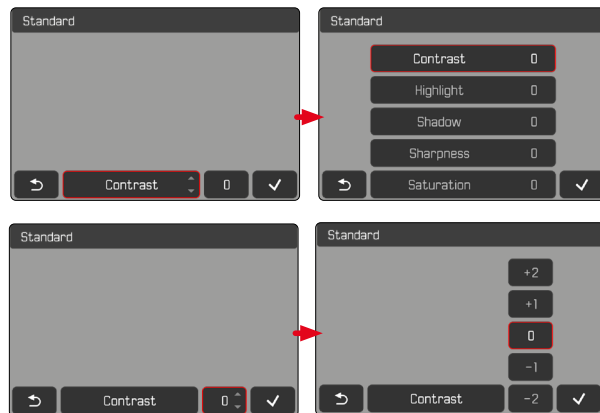
## COMBI MENU (IMAGE PROPERTIES)



- A** “Back” button  
(Exit without saving)
- B** “Parameter” button
- C** “Setting” button
- D** “Confirm” button  
(Save and exit)

The operation is slightly different, depending on whether the settings are done via key control or touch control.

The screen image will remain visible continuously while settings are being adjusted. The result of the setting can be observed directly.



## Using button control

### **Navigating between buttons**

- ▶ Press the joystick left/right
  - An active button is indicated by a red frame.

### **Applying setting**

- ▶ Press the joystick up/down
  - The button toggles directly between each of the options.

or

- ▶ Press the joystick
  - All selectable options are displayed.
  - The “Parameter” button displays the currently set value for each of the parameter options.
- ▶ Press the joystick up/down
  - An active button is indicated by a red frame.
- ▶ Press the joystick
  - The options are no longer displayed.

## Using touch control

- ▶ Tap the desired button
  - All available options are displayed for the buttons “Parameter” and “Setting”.
  - The “Parameter” button displays the currently set value for each of the parameter options.
- ▶ Tap the desired alternative

### **SAVE**

- ▶ Select the “Confirm” button

### **CANCEL**

- ▶ Select the “Back” button





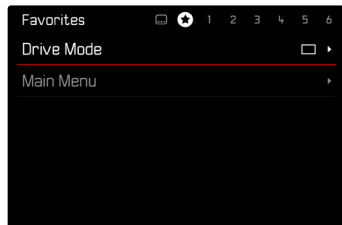
## USER-DEFINED OPERATION

### FAVORITES MENU

Assign your most frequently used menu items to a favorites menu (up to 11 items) for quick and easy access. The available functions are shown in the list on p. 278.

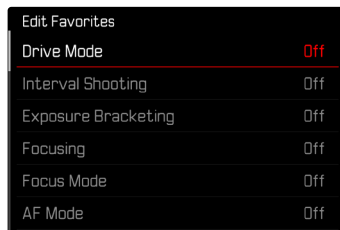
As there are separate menu sections for photo and video mode, the associated favorite menus can also be assigned individually. The favorites menu in video mode applies for both video modes (Video and Cine). The menu item **ISO** in Cine mode accesses the associated **Exposure Index** function.

The favorites menu will be represented by an asterisk in the header line, provided it contains at least one menu item.



### MANAGING THE FAVORITES MENU

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Edit Favorites**
- ▶ Select the desired menu item



- ▶ Select **On/Off**
  - A warning message appears when the favorites menu has reached the maximum of 11 menu items and no further items can be added.

#### Note

- The favorites menu will be deleted completely if all menu items are set to **Off**.



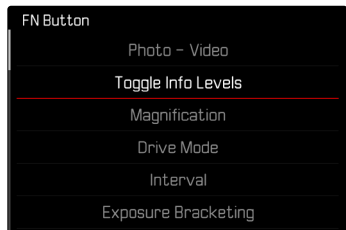
## DIRECT ACCESS TO MENU FUNCTIONS

You can assign specific menu functions to the function buttons for extra quick direct access to menu items in shooting mode. The assignments in photo and video mode are completely independent of each other. The available functions are shown in the list on p. 278. For factory settings see p. 54.

## CHANGING AN ASSIGNMENT

All function buttons permit a quick and easy reassignment of functions in addition to access to their currently assigned menu function.

- ▶ Switch to the desired mode (photo or video)
- ▶ Press and hold the desired function button
  - The direct access appears on the LCD panel.



- ▶ Select the desired menu item

## ACCESSING THE ASSIGNED MENU FUNCTION

- ▶ Briefly press and release the desired function button
  - The assigned function is accessed, or a submenu appears on screen.

### Notes

- The submenus accessed via direct access may look differently than when they are accessed via the main menu. Specifically, they often appear as menu bars to allow quick settings.
- The settings can be done via key control or using touch control on the LCD panel. The operating mode depends on the type of submenu.



## SETTING WHEEL ASSIGNMENTS (IN SHOOTING MODE)

The function of the two setting wheels depends on the active exposure mode. Wheel assignments can be specified independently for photo and video mode and for every exposure mode. The two control elements can furthermore have functions assigned independently.

### FUNCTION ASSIGNMENT

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Wheel Assignment (AF Lenses)** / **Wheel Assignment (MF Lenses)**

Wheel Assignment (AF-lens)		
	Thumbwheel	Front Wheel
<b>P</b>	Programm Shift	Exp. Comp.
<b>A</b>	Aperture	Exp. Comp.
<b>S</b>	Exp. Comp.	Shutter Speed
<b>M</b>	Aperture	Shutter Speed

### Selecting the desired exposure mode

- ▶ Press the joystick up/down
  - Currently available assignment options are highlighted in red.

### Assigning a function to the thumbwheel

- ▶ Turn the thumbwheel
  - The available thumbwheel assignment options cycle through.

### Assigning a function to the front dial

- ▶ Turn the front dial
  - The assignment for the front dial cycles through the available functions.

### Saving the assignment and exiting the menu

- ▶ Press the joystick to the left
- or
- ▶ Tap the shutter button
- or
- ▶ Press the **MENU** button



## WHEN USING AF LENSES

The available functions are listed in the tables below (the factory setting is highlighted in bold).

### Photo mode

	Thumbwheel	Front dial
P	<b>Program shift</b> Exposure compensation ISO	Program shift <b>Exposure Compensation</b> ISO
S	<b>Exposure Compensation</b> Shutter speed ISO	Exposure compensation <b>Shutter speed</b> ISO
A	<b>Aperture</b> Exposure compensation ISO	Aperture <b>Exposure Compensation</b> ISO
M	<b>Aperture</b> Shutter speed ISO	Aperture <b>Shutter speed</b> ISO

### Video mode

	Thumbwheel	Front dial
P	<b>Microphone Gain</b> Exposure compensation ISO	Microphone Gain <b>Exposure Compensation</b> ISO
S	<b>Exposure Compensation</b> Shutter speed ISO	Exposure compensation Shutter speed <b>ISO</b>
A	<b>Aperture</b> Exposure compensation ISO	Aperture Exposure compensation <b>ISO</b>
M	<b>Aperture</b> Shutter speed ISO	Aperture Shutter speed <b>ISO</b>

## CUSTOMIZING THE SETTING WHEELS

The two setting wheels can have function assignments independent of each other. Available functions depend on the selected exposure mode.

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Wheel Assignment (AF-lens)**
- ▶ Implementing the desired assignment



## WHEN USING MF LENSES

The available functions are listed in the tables below (the factory setting is highlighted in bold).

### Photo mode

	Thumbwheel	Front dial
A	<b>Magnification</b> Exposure compensation ISO	Magnification <b>Exposure Compensation</b> ISO
M	<b>Magnification</b> Shutter speed ISO	Magnification <b>Shutter speed</b> ISO

### Video mode

	Thumbwheel	Front dial
A	<b>Magnification</b> Exposure compensation ISO	Magnification Exposure compensation <b>ISO</b>
M	<b>Magnification</b> Shutter speed ISO	Magnification Shutter speed <b>ISO</b>

## CUSTOMIZING THE SETTING WHEELS

The two setting wheels can have function assignments independent of each other. Available functions depend on the selected exposure mode.

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Wheel Assignment (MF-lens)**
- ▶ Implementing the desired assignment



## ROTATION DIRECTION OF THE SETTING WHEELS

You can specify any rotation direction for exposure settings via the setting wheels. You specify the rotation direction, which will result in an exposure reduction (shorter shutter speeds/smaller aperture). The assignments for the two setting wheels are done separately independent of each other in photo and video mode.

### THUMBWHEEL

Factory setting: **Stop Down →**

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Thumbwheel Direction**
- ▶ Select **Stop Down →** or **← Stop Down**

### FRONT DIAL

Factory setting: **← Stop Down**

- ▶ Switch to the desired mode (photo or video)
- ▶ Select **Customize Control** in the main menu
- ▶ Select **Front Wheel Direction**
- ▶ Select **Stop Down →** or **← Stop Down**

## JOYSTICK FUNCTIONS (IN SHOOTING MODE)

You can assign various functions to the joystick in photo mode. The settings for AF and MF mode are done separately. See p. 110, p. 126 and p. 141 for the various functions.

### AF MODE

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **AF Mode**
- ▶ Select the desired setting  
(**AF-L**, **AE-L**, **AF-L + AE-L**)

### MF MODE


- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **MF Mode**
- ▶ Select the desired setting  
(**AFs**, **AFs + AE-L**, **AFc**, **AFc + AE-L**, **AE-L**, **Zoom**)



## LOCKING THE OPERATING ELEMENTS

Various operating elements can optionally be locked in shooting mode.

### Note

-  Appears on screen when an operating element is used while the lock is active.

## LOCKING THE SETTING WHEELS

- ▶ Select **Dial Lock** in the main menu
- ▶ Select **On/Off**

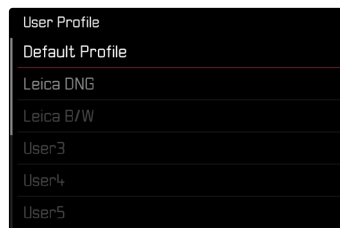
## LOCKING THE JOYSTICK

- ▶ Select **Joystick Lock** in the main menu
- ▶ Select **On/Off**

## USER PROFILES

This camera allows the permanent storage of any menu settings, to e.g. access them quickly and easily for recurring conditions/image objects. Six memory slots are provided to store custom settings, plus the factory setting, which is always available and cannot be modified (**Default Profile**). You can assign names for the saved profiles yourself.

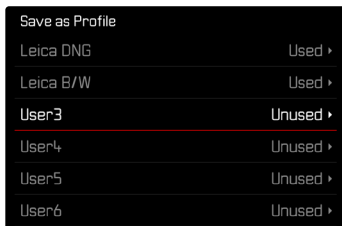
Any profiles configured for the camera can be saved to a memory card for use on another camera. Similarly, profiles saved on a memory card can be transferred to the camera.



## CREATING PROFILES

Saving settings/creating a profile.

- ▶ Create custom settings for the desired functions via menu control
- ▶ Select **User Profile** in the main menu
- ▶ Select **Manage Profiles**
- ▶ Select **Save as Profile**
- ▶ Select a memory slot



- ▶ Confirm the selection

### Notes

- Existing profiles are overwritten with the latest settings.
- A memory slot can only be deleted via the function **Reset Camera** described in the section “Resetting the camera to factory settings” (see p.258).

## RENAMING PROFILES

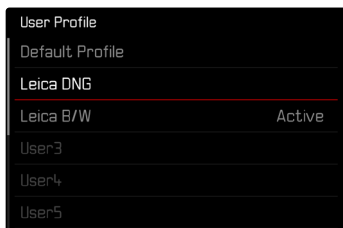


- ▶ Select **User Profile** in the main menu
- ▶ Select **Manage Profiles**
- ▶ Select **Rename Profiles**
- ▶ Select a profile
- ▶ Enter a name for the profile via the associated submenu keyboard and confirm your input (see p.65)
  - Profile names must be between 3 and 10 characters in length.



## APPLY/ACTIVATE PROFILES

Factory setting: **Default Profile**



- ▶ Select **User Profile** in the main menu
  - A list of profile names is displayed.
- ▶ Select a profile
  - The selected profile is marked as **Active**.
  - Free memory slots appear in gray.

## EXPORTING/IMPORTING PROFILES TO/FROM THE MEMORY CARD

- ▶ Select **User Profile** in the main menu
- ▶ Select **Manage Profiles**
- ▶ Select **Export Profiles** or **Import Profiles**
- ▶ Confirm the selection

### Notes

- When importing and exporting, **all** profile slots are transferred to the card, i.e. including any empty slots. Any existing profiles stored in the camera will be overwritten, during the profile import. Individual profiles **cannot** be imported or exported.
- Any existing set of profiles will be replaced on the memory card during an export without an acknowledgment prompt.





## CAMERA BASIC SETTINGS

The two menu items **Language** and **Date & Time** appear automatically when switching the camera on for the first time, after a reset to factory settings (see p. 258), or after a firmware update.

### MENU LANGUAGE

Factory setting: English

Available menu languages: German, French, Italian, Spanish, Russian, Japanese, Korean, Traditional or Simplified Chinese

- ▶ Select **Language** in the main menu
- ▶ Select your language
  - Aside from a few exceptions, the language will be changed for all information.

## DATE/TIME

### RECEIVING THE SETTINGS FROM A MOBILE DEVICE

The date and time settings can be automatically received from the mobile device.

Factory setting: **On**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Date & Time**
- ▶ Select **via Smartphone**
  - The settings will be re-synched each time the device is paired again. The pairing process is described in the chapter “Leica FOTOS” (see p. 264).

### MANUAL SETTINGS

#### DATE

You can choose one of 3 options for the display sequence.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Date & Time**
- ▶ Select **Date Setting**
- ▶ Select the desired date format  
(**Day/Month/Year**, **Month/Day/Year**, **Year/Month/Day**)
- ▶ Set the date





## TIME

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Date & Time**
- ▶ Select **Time Setting**
- ▶ Select the desired brightness  
(**12 Hours**, **24 Hours**)
- ▶ Set the time  
(Select **am** or **pm** for the 12-hour format)

## TIME ZONE

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Date & Time**
- ▶ Select **Time Zone**
- ▶ Select your time zone/current location
  - The Greenwich Mean Time offset is shown on the left of the line
  - Major cities in the relevant time zones are shown on the right

## DAYLIGHT SAVING TIME

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Date & Time**
- ▶ Select **Daylight Saving Time**
- ▶ Select **On/Off**

## DISTANCE UNIT

The distance can be displayed in meters or in feet (see p. 126).

Factory setting: **Meter (m)**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Distance Unit**
- ▶ Select the desired setting  
(**Meter (m)**, **Feet (ft)**)



## POWER SAVE MODE (STANDBY MODE)

The camera will switch to the power-saving standby mode after a preset time to extend battery life if this function is activated.

The device has two power save levels.

- Activates device standby mode in  
3 s/5 s/10 s/2 min/5 min/10 min
- Automatic LCD panel shutdown (see p. 85)

Factory setting: 2 min

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Power Saving**
- ▶ Select **Auto Power Off**
- ▶ Select the desired setting  
(Off, 3 s, 5 s, 10 s, 2 min, 5 min, 10 min)

### Note

- The camera can be woken from standby mode at any time by pressing the shutter button or by switching the main switch off and on again.

## LCD PANEL/VIEWFINDER SETTINGS

The camera comes equipped with a 3.2" liquid crystal color panel, which is protected by a glass cover made of extremely hard and scratch-resistant Gorilla® glass.

The following functions can be configured and used individually:

- Use of the LCD panel and EVF (electronic viewfinder)
- Eye sensor sensitivity
- Brightness
- Color rendering
- EVF Frame Rate
- Automatic LCD panel and EVF shutdown



## LCD PANEL/EVF USE

You can preset the situations in which EVF and LCD panel should be used. The displays appearing on screen and in the viewfinder are identical.

Factory setting: **Auto**

	EVF	LCD panel
<b>Auto</b>	The eye sensor in the viewfinder automatically toggles the camera between LCD panel and EVF. <ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>	
<b>LCD</b>		<ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>
<b>EVF</b>	<ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>	
<b>EVF extended</b>	Only EVF is used for shooting mode. The eye sensor in the viewfinder automatically toggles the camera between LCD panel and EVF for review and menu control. <ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>	

- ▶ Select **Display Settings** in the main menu
- ▶ Select **EVF-LCD**
- ▶ Select the desired setting

### Note

- Select **EVF** if you want to keep the LCD panel switched off (e.g. on dark environments).

## EYE SENSOR SENSITIVITY

You can adjust the eye sensor sensitivity to ensure that the change-over functions reliably if you wear eyeglasses.

Factory setting: **High**

- ▶ Select **Display Settings** in the main menu
- ▶ Select **Eye Sensor Sensitivity**
- ▶ Select the desired setting



## BRIGHTNESS

You can adjust brightness for best visibility in various lighting conditions. Brightness is set individually for the LCD panel and the viewfinder. Selection occurs via key control or touch control.



### LCD PANEL

- ▶ Select **Display Settings** in the main menu
- ▶ Select **LCD Brightness**
- ▶ Select the desired brightness or **Auto**
- ▶ Confirm selection

### EVF

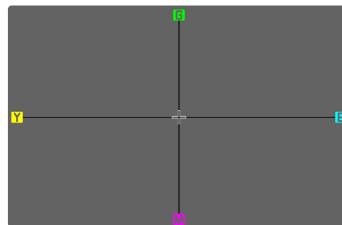
- ▶ Select **Display Settings** in the main menu
- ▶ Select **EVF Brightness**
- ▶ Look through the viewfinder
- ▶ Select the desired brightness
- ▶ Confirm selection

### Note

- The setting **Auto** is not available here.

## COLOR RENDERING

Color rendering can also be adjusted. Brightness is set individually for the LCD panel and the viewfinder. Selection occurs via key control or touch control.



### LCD PANEL

- ▶ Select **Display Settings** in the main menu
- ▶ Select **LCD Color Adjustment**
- ▶ Select the desired color setting
- ▶ Confirm selection

### EVF

- ▶ Select **Display Settings** in the main menu
- ▶ Select **EVF Color Adjustment**
- ▶ Look through the viewfinder
- ▶ Select the desired color setting
- ▶ Confirm selection



## AUTOMATIC LCD PANEL AND EVF SHUTDOWN

The LCD panel and EVF deactivate automatically to save power. The time until power off can be set.

This setting also affects autofocus; the AF system will be deactivated at the time of automatic shutdown as well. We therefore recommend the **Off** setting if autofocus is to be used in HDMI recordings.

Factory setting: **1 min**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Power Saving**
- ▶ Select **All Displays Auto Off**
- ▶ Select the desired setting  
(**Off**, **30 s**, **1 min**, **5 min**)

### Note

- The top display is not affected by the automatic shutdown.

## EVF FRAME RATE

The image frequency of the EVF can be set.

Factory setting: **60 fps**

- ▶ Select **Display Settings** in the main menu
- ▶ Select **EVF Frame Rate**
- ▶ Select the desired setting  
(**60 fps**, **120 fps**)

## ACOUSTIC SIGNALS

Some functions can be acknowledged with acoustic signals. The following special functions can be configured separately:

- Electronic shutter sound
- AF confirmation

## VOLUME

The volume of active signals can be set.

Factory setting: **Low**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **Volume**
- ▶ Select **Low/High**

## ACOUSTIC SIGNALS

This setting specifies, whether the camera shout output general notification signals, e.g. during the delay time of the self-timer or as a warning signal, when the memory card is full.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **Acoustic Signals**
- ▶ Select **On**



## ELECTRONIC SHUTTER SOUND

Factory setting: Off

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **Electronic Shutter Sound**
- ▶ Select **On**

## AUTOFOCUS CONFIRMATION

A signal sound can be selected for successful AF settings.

Factory setting: Off

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **AF Confirmation**
- ▶ Select **On**

## SILENT PHOTOGRAPHY

When pictures should be taken as quietly as possible.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **Electronic Shutter Sound/AF Confirmation/Acoustic Signals**
- ▶ Select **Off** for each of these menu items





## PHOTO SETTINGS

### SENSOR FORMAT

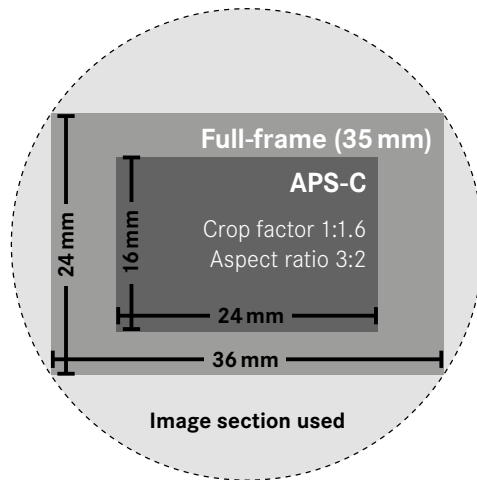
The image data of the entire 35 mm sensor can be used or only a cropped section, which corresponds to the APS-C format. This can be helpful, e.g. when only limited storage capacity remains or a lens developed specifically for APS-C is used.

The max. available resolution is dependent on the setting of the sensor format.

Sensor format	DNG Resolution
35 mm	6000 x 4000 pixels (24 MP)
APS-C	3936 x 2624 pixels (10.3 MP)

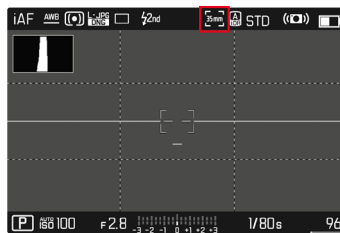
#### Note

- The setting switches automatically to APS-C when an APS-C-specific lens is mounted.



Factory setting: **35 mm**

- ▶ Select **Sensor Format** in the main menu
- ▶ Select the desired setting (**35 mm**, **APS-C**)
  - The set sensor format is shown in the header line.



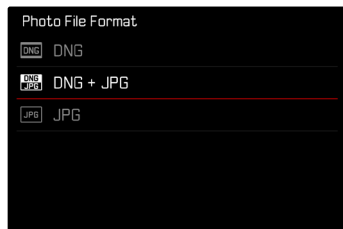


## FILE FORMAT

Choose the JPG format **JPG** or the standardized raw data format **DNG** (= digital negative). Both can be used individually or simultaneously. When creating JPGs, an initial processing occurs in the camera. Various parameters, including contrast, saturation, black level, or edge sharpness are set automatically. The result is then compressed and stored. The immediate result is an image that is optimized for various uses and a quick preview. For post-processing, on the other hand, DNG images are recommended.

DNG files contain all raw data as recorded by the camera sensor at the time the picture is taken. Special software (e.g. Adobe® Photoshop® Lightroom® or Capture One Pro®) will be needed to display DNG format files or to work with this format. Post-processing will allow exact adjustments of many parameters to your own expectations.

Factory setting: **DNG + JPG**



- ▶ Select **Photo File Format** in the main menu
- ▶ Select a format  
(**DNG**, **DNG + JPG**, **JPG**)

### Notes

- The standardized DNG format is used for the storage of raw image data.

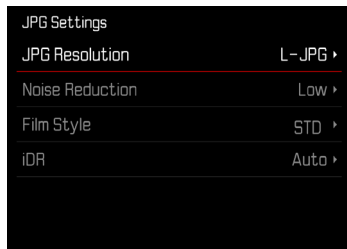
- Where picture data is stored in **DNG** and **JPG** format simultaneously, the specified setting for the **JPG** resolution will be applied to the JPG file.
- The DNG format always uses the highest resolution, no matter what JPG setting is selected.
- The remaining number of frames shown in the LCD panel will not necessarily change after every shooting. That very much depends on the object; very fine image structures result in higher data quantities, while homogeneous surfaces mean less data.



## RESOLUTION

The **JPG** format setting offers 3 image resolution (number of pixels) options. The following file formats are available: **L-JPG**, **M-JPG** and **S-JPG**. This choice allows an alignment with the intended use and available memory card capacity.

Factory setting: **L-JPG**



- ▶ Select **JPG Settings** in the main menu
- ▶ Select **JPG Resolution**
- ▶ Select the desired resolution

The resolution also depends on the selected sensor format. The set sensor format is shown in the header line.

RESOLUTION	Sensor format	
	35 mm	APS-C
L-JPG	24 MP	10.3 MP
M-JPG	12.2 MP	5 MP
S-JPG	5.9 MP	2.5 MP

## ASPECT RATIO

You have a choice of aspect ratios to select in addition to the basic 3:2 (e.g. 1:1). The relevant cropped section will be displayed. Images made in JPG format are saved with the relevant aspect ratio. DNG images will always have the natural sensor format (3:2), the set aspect ratio is only in aid of the image composition. In review mode, DNG images will be displayed with horizontal or vertical auxiliary lines showing the cropped section seen when shooting.

Factory setting: **3:2**

- ▶ Select **Photo Aspect Ratio** in the main menu
- ▶ Select the desired setting  
(**3:2**, **7:5**, **4:3**, **1:1**, **3:1**, **16:9**)



## FILM STYLE

### IMAGE PROPERTIES

One of the many advantages of digital photography is that it is very easy to change essential image properties. The image properties of JPG pictures can be changed slightly using several parameters. These are summarized in pre-configured **Film Style** profiles.

### CONTRAST

The contrast setting, i.e. the difference between light and dark image sections, determines whether an image comes across as “flat” or “brilliant”. Increasing or decreasing this difference impacts on contrast, meaning that some image sections are rendered brighter or darker.

### SHARPNESS

The impression of sharpness in a picture is largely determined by edge sharpness, i.e. by how slight the transition area between light and dark is at edges in the picture. Expanding or reducing these areas will therefore change the impression of sharpness.

### COLOR SATURATION

The saturation factor in color shots determines, whether colors in the picture appear “pale” and pastel-like or “vivid” and bright. While lighting conditions and weather (e.g. foggy/clear) are a given in terms of shooting conditions, their rendering can be influenced.

## HIGHLIGHT/SHADOW

Depending on the exposure selected and the dynamic scope of the object, some details in brighter or darker areas may no longer be clearly visible. The parameters **Highlight** and **Shadow** allow differentiated control over very brightly or less brightly lit areas. Where, for example, part of the object is in shadow, a higher setting for **Shadow** can help brighten these areas to make details more visible. Conversely, existing shadows or particularly bright areas might be additionally emphasized for reasons of image composition. Positive values will brighten the targeted areas, while negative values will darken them.



## COLOR PROFILE

3 pre-configured color profiles are available:

Factory setting: **Standard**

- STD **Standard**

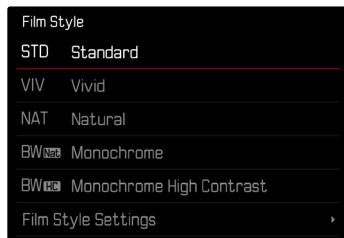
- VIV **Vivid**

- NAT **Natural**

▶ Select **JPG Settings** in the main menu

▶ Select **Film Style**

▶ Select a profile



## MONOCHROME PROFILE

Two pre-configured monochrome profiles are available:

- **BW** **Monochrome**

- **BW** **Monochrome High Contrast**

▶ Select **JPG Settings** in the main menu

▶ Select **Film Style**

▶ Select a profile

## CUSTOMIZING PHOTO PROFILES

These parameters can be adjusted for all available profiles (**Saturation** only for color profiles). See p. 68 for details on menu operation.

▶ Select **JPG Settings** in the main menu

▶ Select **Film Style**

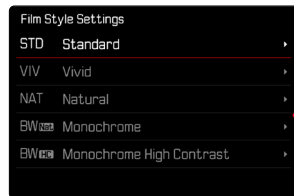
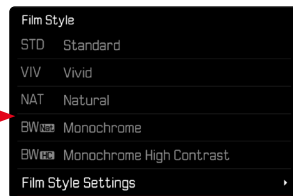
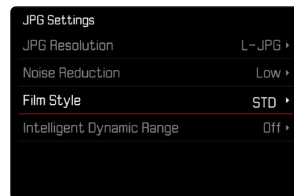
▶ Select **Film Style Settings**

▶ Select a profile

▶ Select **Contrast/Highlight/Shadow/Sharpness/Saturation**

▶ Select the desired level  
(-2, -1, 0, +1, +2)

▶ Confirm



## AUTOMATIC OPTIMIZATION

### NOISE REDUCTION

#### NOISE REDUCTION FUNCTION FOR LONG-TERM EXPOSURE

In digital photography, the appearance of flawed pixels that can be white, red, blue or green is referred to as "noise". Image noise becomes more apparent when using higher sensitivities, particularly on uniform dark areas. Long exposure times may cause severe image noise. In order to reduce this annoying phenomenon, the camera will take a second "black picture" (taken with the shutter closed) automatically after a shooting with slow shutter speed and high ISO value. The noise metered in this parallel image is then digitally "subtracted" from the data for the actual image. In such cases the message **Noise reduction in progress...** will appear with a relevant time value. The doubling of the "exposure" time must be taken into account for long-term exposure times. The camera must not be switched off during that time.

Factory setting: **On**

- ▶ Select **Long exposure noise reduction** in the main menu
- ▶ Select **On/Off**

### NOISE REDUCTION IN JPG SHOTS

Except when high sensitivities are used, noise is luckily negligible. Nevertheless, noise reduction is a component of data processing when JPG files are generated. On the other hand, since it also has an effect on the focus review, you can optionally weaken or strengthen this noise reduction in comparison to the standard setting.

Factory setting: **Low**

- ▶ Select **JPG Settings** in the main menu
- ▶ Select **Noise Reduction**
- ▶ Select the desired setting (**Low**, **Medium**, **High**)

#### Note

- This setting will only affect shots in JPG format.





## IMAGE STABILIZATION

The less favorable the lighting conditions during shooting, the slower will be the required shutter speeds for correct exposure. Visual image stabilization is a great tool for preventing out-of-focus images due to blurring.

Factory setting: **On**

- ▶ Select **Image Stabilization** in the main menu
- ▶ Select **On/Off**

## SETTING THE STABILIZATION DIRECTION

For camera pans it can be useful to only correct camera shake in specific directions.

Factory setting: **Normal**

<b>Normal</b>	Camera shake in all directions (horizontal, vertical, rotational) will be corrected automatically.
<b>Automatic</b>	The camera recognizes the panning direction automatically and corrects orthogonal camera shake autonomously.
<b>Vertical Panning</b>	Only horizontal camera shake will be corrected.
<b>Horizontal Panning</b>	Only vertical camera shake will be corrected.

- ▶ Select **Panning Mode** in the main menu
- ▶ Select the desired setting  
(**Normal**, **Auto Panning**, **Vertical Panning**, **Horizontal Panning**)

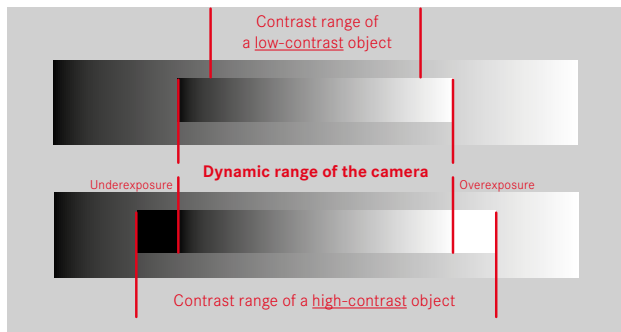
### Note

- Some lenses may not support all settings offered in the camera. Please contact Leica Customer Care if you have any questions (see p. 298).

## DARK AREA OPTIMIZATION (IDR)

### DYNAMIC RANGE

The contrast range of an object comprises all levels of brightness from the brightest to the darkest point in the image. All levels of brightness can be captured by the sensor, provided the contrast range of the object is lower than the dynamic range of the camera. In case of significant differences of brightness in the object (e.g. shootings of interior spaces with bright windows in the background, shootings with subject elements in shadow or directly lit by the sun, landscapes with dark areas and a very bright sky), the camera with its limited dynamic range will not be able to map the entire contrast range of the object. Information in 'edge areas' will be lost (under and overexposure).



### IDR FUNCTION

The **IDR** (Intelligent Dynamic Range) function allows an optimization of the darker areas. Object details become much clearer. This function will only affect shots in JPG format.



You can specify beforehand if and to what extent you want to optimize darker areas (**High**, **Standard**, **Low**, **Off**). In the **Auto** setting, the camera will automatically select the right setting depending on the contrast range of the object. In addition to that setting, the effect also depends on the exposure settings. The function will have the strongest effect in combination with low ISO values and fast shutter speeds. The effect is less pronounced with higher ISO values and/or slower shutter speeds.

Factory setting: **Auto**

- ▶ Select **JPG Settings** in the main menu
- ▶ Select **IDR**
- ▶ Select the desired setting (**Auto**, **High**, **Standard**, **Low**, **Off**)

### Note

- The optimization of darker areas will slightly reduce differentiation in very bright areas.



## DATA MANAGEMENT

### STORAGE OPTIONS

There are a number of options for saving data when two memory cards are inserted.

- **DNG + JPG on SD1 = SD2 (Backup)**
- **DNG + JPG on SD1 + SD2 (Standard)**
- **DNG on SD1 / JPG on SD2 (Split)**

<b>SD1 = SD2 (Backup)</b>	All files are saved to SD1 and SD2. One of the cards therefore serves as backup.
<b>SD1 + SD2 (Standard)</b>	Files are saved to SD1 first, until its capacity is reached. Subsequent files will then be saved to SD2.
<b>SD1 / SD2 (Split)</b>	Files are saved separately depending on their format: JPG files are saved to SD1 and DNG files to SD2.

An icon in the status screen denotes the selected setting.

Factory setting: **DNG + JPG on SD1 + SD2 (Standard)**

- ▶ Select **Storage Options** in the main menu
- ▶ Select the desired setting  
**(SD1=SD2, SD1+SD2, SD1/SD2)**

### FORMATTING A MEMORY CARD

Memory cards that have already been in use with this camera will usually not require formatting. An unformatted memory card that is inserted into the camera for the first time must be formatted. We recommend formatting memory cards from time to time, because residual data traces (data pertaining to individual pictures) may reduce the card's memory capacity. The two memory cards will be formatted separately.

- ▶ Select **Format Card** in the main menu
- ▶ Select **Format SD Card 1** or **Format SD Card 2**
- ▶ Confirm the selection
  - The lower status LED will flash during that process.





## Notes

- Never switch off the camera while data transfer is in progress.
- All data stored on the memory card will be lost during formatting. Formatting will not be prevented by a deletion protection set for individual pictures.
- All images should therefore be regularly transferred to a safe mass storage medium, e.g. the hard disk of a computer.
- A simple formatting process will initially not irretrievably destroy existing data on the card. Only the directory will be deleted, which means the data will no longer be directly accessible. Data access can be restored with appropriate software. Only data that is overwritten when new data is saved will actually be irretrievable.
- A memory card should be formatted again in the camera if it was formatted in another device, e.g. a computer.
- Contact your retailer or Leica Customer Care for assistance if the memory card cannot be formatted/overwritten (see p. 298).

## DATA STRUCTURE

### FOLDER STRUCTURE

The files (= pictures) on the memory cards are saved in automatically generated folders. The first three characters signify the folder number (numerals), the last five the folder name (letters). The first folder is assigned the name “100LEICA”, the second “101LEICA”. A folder will always be created with the next available number; you can have max. 999 folders.

### FILE STRUCTURE

The file names in these folders consist of eleven characters. In the factory settings, the first file is named “L1000001.XXX”, the second “L1000002.XXX”, etc. The first letter can be selected, the “L” from the factory settings denotes the camera brand. The first three characters signify the folder number (numerals). The next four digits denote the sequential file number. Once file number 1000 is reached, then a new folder will be automatically created, in which the file numbering begins at 0001 again. The last three places after the dot denote the file format (DNG or JPG).



## Notes

- When using memory cards that were not formatted with this camera, the file numbering will begin with 0001 again. Should the memory card already contain a file with a higher number, then numbering will be continued from that number.
- A relevant message will be displayed on the LCD panel once folder number 999 and file number 1000 are reached, and all numbering must be reset.
- Format the memory card and reset the picture number right after to reset the folder number to 100.

## EDIT FILE NAMES

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Edit File Name**
  - A keyboard submenu is displayed.
  - The input line contains the factory setting “L” as the first letter of the file name. Only this letter can be changed.
- ▶ Enter a letter of your choice (see p. 65)
- ▶ Confirm

## Notes

- The change to a file name applies to all subsequent shots or until a new change is made. The sequential number will not be affected; but it will be reset when a new folder is created.
- During a reset to factory settings, the first letter will always be reset to “L”.
- Lower case letters are unavailable.



## CREATING A NEW FOLDER

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Reset Image Numbering**
  - A relevant prompt is displayed.
- ▶ Confirm the creation of a new folder (**Yes**) or cancel the new folder (**No**)

### Note

- The name part (first letter) of a new folder created this way remains unchanged. The file numbers in that folder will start again at 0001.

## ADDING COPYRIGHT INFORMATION

This camera allows you to enter letters and other characters as a copyright mark for your picture files.

You can enter up to 20 characters of information under 2 headings per shot.

- ▶ Select **Camera Information** in the main menu
- ▶ Select **Copyright Information** in the submenu
- ▶ Activate the **Copyright** function (**On**)
- ▶ Select **Information/Artist** in the submenu
  - A keyboard submenu is displayed.
- ▶ Enter the desired information (see p. 65)
- ▶ Confirm

## LOGGING THE SHOOTING LOCATION (ONLY IN CONNECTION WITH THE LEICA FOTOS APP)

Location information can be sourced from a mobile device in connection with the Leica FOTOS app. Current location information will then be written to the Exif data of the recordings (geotagging).




- ▶ Activating GPS functions on a mobile device
- ▶ Activate Leica FOTOS and connect to the camera (see chapter “Leica FOTOS”)
- ▶ Activate geotagging for this camera in Leica FOTOS

### Notes

- The use of GPS and associated technologies may be restricted in some countries or regions. Violations will be prosecuted by local authorities. You should therefore contact your travel agent or the embassy of your destination country for relevant information beforehand.
- It will take a few seconds for the Bluetooth connection to establish. The configured shutdown time should be considered when choosing a delay time if shutdown is enabled in the camera.
- All recordings with location information are marked with the geotagging icon in playback mode.

## GEOTAGGING STATUS

The status of existing location information is displayed on screen, provided the info bars are displayed and geotagging is enabled. The status screen will always show the current geotagging status. The geotagging status will also be shown in the top display.

	The location information is current (most recent geolocation max. 15 mins prior).
	The location information is not necessarily current anymore (most recent geolocation max. 12 h prior).
	The available location information is outdated (most recent geolocation more than 12 h in the past). No location data will be written to Exif data.
No icon	Geotagging is deactivated.

Location information will be continuously updated as long as the camera is connected to Leica FOTOS. The Bluetooth function of the camera and the mobile device must therefore remain enabled to ensure latest information. It is, however, not necessary for the app to be running in the foreground.

## DATA TRANSFER

Data can be conveniently transferred to mobile devices via Leica FOTOS. Alternatively, a card reader or USB cable can be used for the transfer.

### ABOUT LEICA FOTOS

- ▶ See chapter “Leica FOTOS” (p. 264)

### VIA USB CABLE

The camera supports multiple data transfer options (PTP and mass storage mode). A transfer mode can be permanently selected or chosen every time a connection is established.

Factory setting: **PTP**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **USB-Mode**
- ▶ Select the desired setting  
(**Mass Storage**, **PTP**, **Select on connection**)

### Notes

- We recommend using a card reader for the transfer of large files.
- The USB connection must not be interrupted while data is being transferred, as the computer or the camera could otherwise “crash” and irreparable damage could occur on the memory card.
- The camera must not be turned off or automatically shut itself down due to a lack of battery power while data is being transferred, as this can cause the computer to crash. For the same reason, the battery must never be removed from the camera while the connection is active.



## PRACTICAL DEFAULT SETTINGS

### TOUCH AF

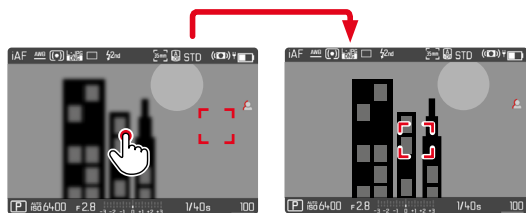
Touch AF allows a direct placement of the AF metering field.

Factory setting: **On**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Touch AF**
- ▶ Select **On/Off**

#### Positioning the AF Metering Field

- ▶ Tap the LCD panel in the desired position



#### Moving the metering field back to the center of the screen

- ▶ Double-tap the LCD panel

#### Notes

- This function is available in conjunction with the following AF metering methods: **Spot**, **Field**, **Zone**, **Tracking** and **Eye/Face/Body Detection**.
- With **Spot**, **Field**, **Zone** or **Eye/Face/Body Detection** metering selected, the camera will immediately focus again automatically. If the metering method **Tracking** is selected, the metering field will remain at the selected position and autofocus commences when the shutter button is tapped.
- The settings described in this chapter apply for both photo and video mode.

### TOUCH AF IN EVF MODE

Touch AF is deactivated by default when EVF is in use to prevent any inadvertent altering of the AF metering field. Touch AF can, however, also be used in EVF mode.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Touch AF in EVF**
- ▶ Select **On/Off**

#### Note

- The settings described in this chapter apply for both photo and video mode.



## PERSONALIZED LENS SETTINGS

The total angle of rotation of the lens used for focusing can be individually adjusted. The setting selected indicates the angle of rotation required to change the focus setting from infinity to the nearest possible distance. Example: for a setting to **90°**, the entire focus range will be run through when the focus ring is turned by one quarter. A full turn of the focus ring will be needed for a setting to **360°**. Smaller values facilitate a faster, larger values a more precise adjustment. A setting to **Maximum** offers the highest precision.

Unlike the permanent settings, a setting to **Standard MF** will result in a non-linear dependency of rotation angle and focus setting. The extent of the change depends dynamically on the speed of rotation. With slow rotation, the same angle of rotation (e.g. 45°) causes a smaller change than with fast rotation.

Factory setting: **Standard MF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **MF Setup**
- ▶ Select the desired setting  
(**Standard MF**, **90°**, **120°**, **150°**, **180°**, **210°**, **240°**, **270°**, **300°**, **330°**, **360°**, **Maximum**)

### Notes

- The settings **Standard MF** and **Maximum** are highly lens-dependent. **Maximum** may, for example, mean a rotation angle of 360° or 720°.

## EV INCREMENT

You can choose between 1/2 EV or 1/3 EV graduations. This will allow you to choose between stronger or more subtle effects for your relevant settings.

This setting doesn't just apply for exposure compensation settings. It also specifies the sensitivity of the setting wheels in standard shooting mode, i.e. the increment width with which the shutter speeds and the aperture will be set. A setting to **1/2** will change the shutter speeds and aperture values that much faster each time the setting wheel is moved one click further and the correct setting is achieved quicker. A setting to **1/3** facilitates a more precise setting.

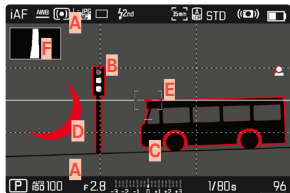
Factory setting: **1/3**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **EV Increment**
- ▶ Select the desired setting  
(**1/2**, **1/3**)

## AUXILIARY DISPLAYS

The Leica SL2-S has 4 independent info profiles, which contain differing combinations of the available auxiliary displays. The following functions are available:

- Info Bars (see p. 106)
- Grid (only shooting mode, see p. 106)
- Focus Peaking (see p. 107)
- Clipping (see p. 106)
- Level Gauge (only shooting mode, see p. 108)
- Histogram (see p. 109)



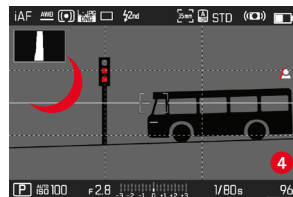
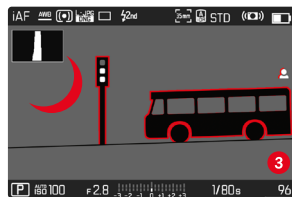
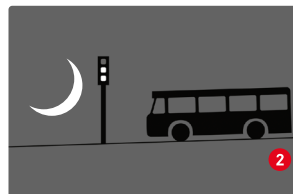
- A** Info Bars (= header and footer line)
- B** Grid
- C** Focus peaking
- D** Clipping
- E** Level gauge
- F** Histogram

## INFO PROFILES

Up to 4 independent profiles can be used. The desired function can be selected and adjusted individually for each profile. During operation, the switch between info profiles is done via direct access (see p. 71). In factory settings, that will be the **FN** button. It allows quick switches between various views.

The following profiles are predefined in the factory settings:

Profile	Factory settings
1	Only info bars (header and footer lines)
2	Full screen view (all auxiliary displays <b>Off</b> )
3	Info Bars, Clipping / Zebra, Focus Peaking, Histogram
4	Info Bars, Clipping / Zebra, Grid, Level Gauge







## CHANGING THE INFO PROFILES

- ▶ Press the function button with the **Toggle Info Levels** assignment
  - In factory settings, that will be the **FN** button.

### Note

- The same info profiles are available in review mode as in shooting mode. The actual info profile currently in use, however, is saved separately.

## DEACTIVATING INDIVIDUAL INFO PROFILES

You can limit the number of info profiles by activating/deactivating individual profiles. At least one profile must always be active, but that can be an “empty” profile.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select a profile
- ▶ Select **On/Off**

## CUSTOMIZING THE INFO PROFILES

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select **Setting**
- ▶ Select a profile
- ▶ Select the desired function
- ▶ Select the desired setting

Function	Available settings
Info Bars	On, Off
Grid	3 x 3, 6 x 4, Off
Clipping / Zebra	Off, Upper limit (value between 200 and 255)
Focus Peaking	On, Off Color (Red, Blue, Green, White) & sensitivity (settings apply to <u>all</u> info profiles)
Level Gauge	On, Off
Histogram	On, Off

### Note

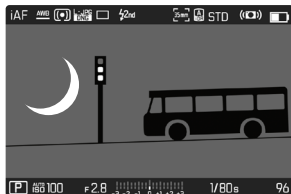
- It is advisable to reserve one info profile as “empty”, in which all functions are set to **Off**. It allows you to temporarily hide all displays. In effect, you get an unobstructed view of the full screen image.



## SHOW AVAILABLE

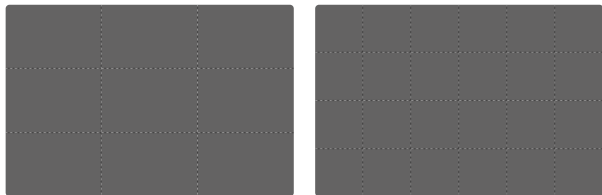
### INFO BARS

The header and footer lines show the currently active settings and exposure values. See chapter “Displays” for a full list of the various displays (see p. 28).



### GRID

The grids divide the image frame into multiple fields. They facilitate picture composition and an exact camera orientation. The grid line distribution can be adjusted to fit the object.



You can choose one of two grid displays. They divide the image field into 3x3 or 6x4 fields.

## CLIPPING

The Clipping display marks very bright image areas. This function is a very easy and exact tool for checking the correct exposure setting. Overexposed areas flash black.



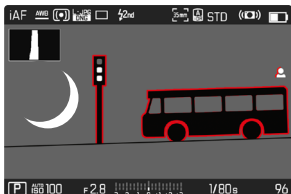
### SETTING THE LIMIT VALUE


You can set a threshold value for these displays, i.e. define a value at what degree of overexposure they will appear, so that you can adjust these displays to specific conditions or in line with your own composition ideas.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select **Setting**
- ▶ Select a profile
- ▶ Select **Clipping / Zebra**
- ▶ Select **Upper limit**
- ▶ Select the desired value (**200** to **255**)

## FOCUS PEAKING

This assist function highlights the edges of in focus subject elements in color.



When Focus Peaking is activated,  will appear to the right of the frame with a display of the color used.

## HIGHLIGHT COLOR

The color can be user-specified. This setting will apply for all info profiles.

Factory setting: **Red**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Focus Peaking**
- ▶ Select the desired setting  
(**Red**, **Green**, **Blue**, **White**)

## SENSITIVITY

The sensitivity can be additionally adjusted. This setting will apply for all info profiles.

Factory setting: **High**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Peaking Sensitivity**
- ▶ Select the desired setting  
(**Low**, **High**)

## Note

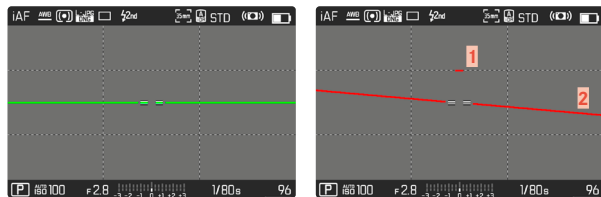
- Focus peaking is based on subject contrast, i.e. differences between light and dark. As a result, high contrast subject elements could be marked, even if they are not completely in focus.



## LEVEL GAUGE

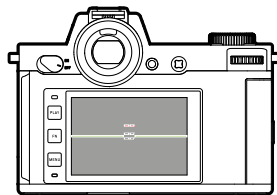
The integrated sensors of the camera show its orientation. These indicators ensure exact camera orientation along the longitudinal and transverse axes of critical objects, e.g. architecture.

Deviations in relation to the longitudinal axis (i.e. when the camera is tilted up or down in the direction of view) are indicated by a short line in the center of the image (1). Deviations in relation to the transverse axis (when the camera is tilted to the left or right) are indicated by two long lines to the left and right of the image center (2).

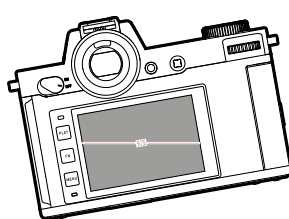


### Note

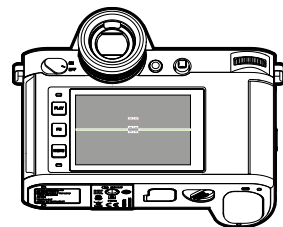
- The camera will switch the aspect of the level gauge autonomously for shoots in vertical format.



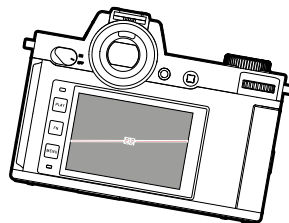
Correct alignment



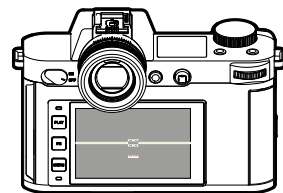
Tilted laterally to the left



Tilted downward in the direction of view



Tilted laterally to the right



Tilted upward in the direction of view

## HISTOGRAM

Histogram represents the brightness distribution in the image. The horizontal axis shows the graduated values from black (left) through gray to white (right). The vertical axis corresponds to the number of pixels at each brightness level.

This type of rendering allows an additional quick and easy assessment of the exposure setting.



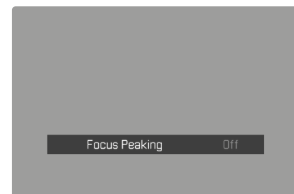
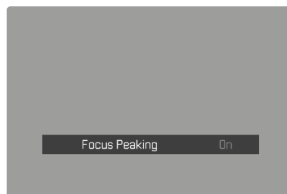
### Notes

- The histogram is always based on the brightness displayed; depending on the settings used, it may not represent the final exposure.
- In shooting mode, the histogram should be regarded as a “trend indicator”.
- The histogram during rendering may differ slightly from the one during exposure.
- The Histogram always refers to the currently displayed cropped section of the image.

## TEMPORARY ACTIVATION/DEACTIVATION OF INDIVIDUAL FUNCTIONS

The following assist functions can be activated/deactivated temporarily:

- Focus peaking
- Clipping
- ▶ Assigning the desired assist function to a function (see p. 71)
- ▶ Press the corresponding function button
  - The status of the assist function toggles On/Off.
  - A relevant indicator appears in the screen image.



The temporary setting is reset when the user switches to another info profile or the camera is switched off.



## ENHANCED LIVE VIEW

Image composition is often difficult in very dark environments (e.g. at night), as the objects are barely visible. The function **Enhanced Live View** will assist the image composition in such situations. The image is enhanced in Live View based on a significant increase in the ISO value and a reduced refresh rate. Picture quality will not be impacted. Due to technical issues, there will, however, be image noise and severe tracer effects in Live View mode. This function will only be active in very low ambient light.

Depending on the selected exposure mode and other settings, Live View will display an exposure preview when the shutter release button is tapped and held (see section “Exposure control” beginning on page 141).

- ▶ Select **Live View Settings** in the main menu
- ▶ Select **Enhanced Live View**
- ▶ Select **On/Off**

### Notes

- The function will be inactive even if **Enhanced Live View** is set to **On** if there is sufficient ambient light.
- In AF mode, the function **Enhanced Live View** will be intermittently inactive during range metering.
- **Focus Peaking** will be unavailable when **Enhanced Live View** is set to **On**.

## MF ASSIST FUNCTIONS

### AF ASSIST LAMP

The integrated AF assist lamp allows operation of the AF system in unfavorable lighting conditions. This lamp comes on while metering is performed, provided the function is activated.

Factory setting: **On**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **AF Assist Lamp**
- ▶ Select **On/Off**

### Notes

- The AF assist lamp illuminates an area of up to approx. 5 m.
- The AF assist lamp switches off automatically, once focusing was successful (AF metering field is green) or has failed (AF metering field is red).



## ACOUSTIC AF CONFIRMATION

You can set an acoustic confirmation signal for successful focus metering in AF mode.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **AF Confirmation**
- ▶ Select **On**
- ▶ Select **Volume**
- ▶ Select **Low/High**



## PHOTOGRAPHY

The settings described in this chapter only apply for photo mode. They are therefore part of the photo menu and must always be accessed and configured from within photo mode (see chapter “Camera operation” in the section “Menu Control”). Any menu items of the same name in the video menu are entirely independent of these.

Image data is shown in the top display and on the LCD panel (EVF). For display settings see p. 104. See chapter “Displays” for details about the various displays.

### DRIVE MODE

The functions and settings described in the following generally refer to the exposure of individual pictures. In addition to single frame shooting, the Leica SL2-S offers a number of other exposure modes. Please read the relevant sections for information about functionalities and setting options.

- ▶ Select **Drive Mode** in the main menu
- ▶ Select the desired function options

Mode	Setting options / Variants
Single frame shooting	<b>Single</b>
Continuous shooting (see p. 146)	Speed: - <b>Continuous - Low Speed</b> - <b>Continuous - Medium Speed</b> - <b>Continuous - High Speed</b> - <b>Continuous - Very High Speed</b>
Interval shooting (see p. 147)	<b>Number of Frames</b> Interval between the shootings ( <b>Interval</b> ) Delay time ( <b>Countdown</b> )
Exposure bracketing (see p. 149)	<b>Number of Frames</b> (3 or 5) <b>EV Steps</b> <b>Exposure Compensation</b>
Multishot (see p. 150)	Delay time ( <b>Self Timer</b> ) <b>Motion artefacts correction</b>
Self-timer (see p. 152)	Delay time: - <b>Self-timer 2 s</b> - <b>Self-timer 12 s</b>





## FOCUSING

Your Leica SL2-S allows automatic as well as manual focusing. There are 3 operating modes and 4 metering methods available for AF photography. Only manual setting options are available for MF lenses.

### AF PHOTOGRAPHY

- ▶ Select the desired AF mode
- ▶ Position the AF metering field as needed
- ▶ Tap and hold the shutter button
  - Focusing occurs one time (AFs) or continuously (AFc).
  - Metering was successful: The AF metering field lights up green.
  - Metering was unsuccessful: The AF metering field lights up red.
  - Alternatively, focusing and/or exposure settings can be done and saved via the joystick (see “Metering memory lock” on p. 141).
- ▶ Shutter release

### MF PHOTOGRAPHY

- ▶ Select as focus mode **MF** (see p. 123)
- ▶ Use the focus ring to manually focus on the object
- ▶ Shutter release

Please read the following chapters for more information.

## AUTOFOCUS MODES

The following AF modes are available: **AFs**, **AFc** and **Intelligent AF**. The currently selected AF mode is shown in the header line.

Factory setting: **Intelligent AF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select the desired setting (**Intelligent AF**, **AFs**, **AFc**)

### INTELLIGENT AF

Suitable for all objects. The camera automatically selects between AFs and AFc.

#### AFs (single)

Suitable for objects with little or no movement. Focusing is done only once and the setting remains as long as the shutter button is held at the pressure point. That also applies if the AF metering field is pointed at another object.

#### AFc (continuous)

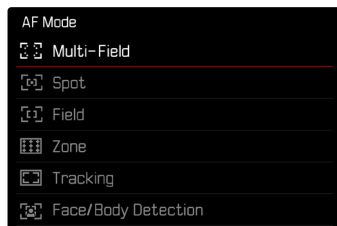
Suitable for objects in motion. As long as the shutter button is held at the 1st pressure point, focusing is continuously adjusted to the object in the AF metering field.



## AUTOFOCUS METERING METHODS

The AF mode offers various metering methods for focusing. A successful focus setting is identified by a green metering field, an unsuccessful one is shown in red.

Factory setting: **Multi-Field**



- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Mode**
- ▶ Select the desired setting  
(**Multi-Field**, **Spot**, **Field**, **Zone**, **Tracking**, **Eye/Face/Body Detection**)

### Notes

- AF focusing can be unsuccessful:
  - if the distance to the object is too great (macro mode) or too small
  - if the object is not sufficiently illuminated
- Touch AF allows a direct placement of the AF metering field. See p. 102 for more information.

## MULTI-FIELD METERING

Several metering fields are detected automatically. This function is particularly useful for snapshots.

### SPOT/FIELD METERING

Both methods detect only those parts of the object that are within the relevant AF metering fields. The metering fields are indicated by a small frame (field metering) or a cross (spot metering). The very small measuring range for spot metering allows focusing on tiny details of the subject.

The slightly larger measuring range in field metering is less critical for focusing, but still permits selective metering.

These metering methods can also be used for serial exposures in which the part of the object you want to focus on will always be at the same off-center position in the image.

Simply move the AF metering field to another position (see p. 122).

## ZONE

With this metering method, subject sections are recorded with a coherent group comprising 5x5 fields. This function combines some security for snapshots with the option of aiming at larger objects reliably.



Once the setting has been made, the metering fields are displayed where object sections are displayed in focus.

## TRACKING

This field metering variant helps in the capture of moving objects. The focus on the object in the metering field is continuously adjusted, once it is detected.

- ▶ Aim the metering field at the desired object (by panning the camera shifting the metering field)
- ▶ Tap and hold the shutter button

or

- ▶ Press and hold the joystick (provided it was assigned the function **AF-L** or **AF-L + AE-L**, see p. 141)
  - The camera focuses on the object.
- ▶ Pan the camera to the desired cropped section
  - The metering field “tracks” the saved object and focus is continuously adjusted.

### Note

- This metering method focuses continuously, even if the AF mode **AFs** was set.



## START POSITION FOR TRACKING

Factory setting: **Center**

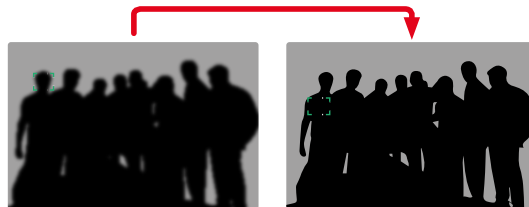
You can specify the starting point for tracking.

<b>Center</b>	Center of the screen
<b>Last Position</b>	Ending position of the most recent tracking Example: A car drives through the picture from left to right. The picture is taken on the right edge of the frame. The subsequent measurement is taken at the right edge of the frame.
<b>Recall</b>	Starting position of the most recent tracking Example: A car drives through the picture from left to right. The picture is taken on the right edge of the frame. The subsequent measurement is taken at the left edge of the frame.

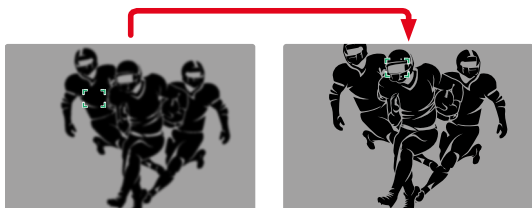
- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **AF Tracking Start Position**
- ▶ Select the desired setting  
(**Last Position**, **Recall**, **Center**)

## PERSON DETECTION (FACE DETECTION)

Person detection is an expansion of the face detection feature. In addition to biometric patterns of faces, the camera also detects body patterns and uses them for focusing. Tracking will therefore continue, once a person is detected and measured, even if the face may not be in view at some point. This feature prevents inadvertent “jumps” to other faces if several persons are in the frame.



When face detection detects an eye, the focus will be on that eye. Should more than one eye be detected, then the user can choose the eye to focus on. The currently selected eye will be highlighted. Additionally, the desired face can be easily selected if there are several faces in the frame.



#### Switching between faces

- ▶ Press the joystick in the relevant direction

#### Switching the focused eye

- ▶ Press the joystick

## AF SETTINGS

### AF PROFILES

Factory setting: **Children / Pets**

AF profiles allow optimal adjustments to the autofocus behavior depending on the type of object. You specify the sensitivity of the autofocus response to changes in the object.

There are 4 pre-defined AF profiles:

AF Profile	Typical situation
Children / Pets	Standard movements
Team sports	Fast and unexpected change in direction
Runner	Constant movements
Wildlife	Sudden appearance, change in direction



Each of these profiles contains three parameters: **Depth Sensitivity**, **Field Movement** and **Shift in Direction**.

Higher values:	Lower values:
<b>Depth Sensitivity</b>	
Changes in the distance to the object are tracked immediately	The adjustment is delayed slightly to prevent unwanted focus jumps, should e.g. a person or object pass in front of the subject
<b>Field Movement</b>	
In case of movement from within the active focus field, the camera will switch to the next focus field as quickly as possible	Gradual switchover to adjacent focus fields to prevent errors due to slight movements
<b>Shift in Direction</b>	
The focus will immediately track sudden changes to the movement of the object	More robust focusing during steady movements

## ACCESSING THE ACTIVE PROFILE

- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **AF Profiles**

## CHANGING THE ACTIVE PROFILE

- ▶ Accessing the active profile
  - ▶ Press the joystick/thumbwheel
    - The currently selected profile is marked as changeable by red lettering and two small white triangles on either side.
  - ▶ Press the joystick left/right
- or
- ▶ Turn the thumbwheel

## ADJUSTING THE ACTIVE PROFILE

- ▶ Accessing the active profile
- ▶ Select desired parameter
- ▶ Press the joystick/thumbwheel
- ▶ Setting the desired value

## RESETING THE ACTIVE PROFILE

- ▶ Accessing the active profile
- ▶ Press the joystick to the right
- ▶ Press the joystick/thumbwheel

## PRE FOCUS

When the function is active, the camera carries out a continuous depth mapping in realtime before the actual focusing. That allows a pre-identification of possible focus points in a scene. It speeds up the autofocus function significantly.

The pre-focus function is compatible with all AF modes and AF metering methods.

Factory setting: **On**

- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **Pre Focus**
- ▶ Select **On/Off**

## FOCUS LIMIT

The focus area can be limited to the macro range. This will speed up automatic focusing considerably.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Focus Limit (Macro)**
- ▶ Select **On/Off**

### Notes

- The focusing range differs depending on the lens used (see relevant instructions).
- This function is not available for specific lenses:
  - lenses mounted via an adapter (e.g. Leica M lenses with L adapter M)
  - specific Leica SL lenses



## AF QUICK SETTING

AF Quick Setting offers the following functions:

- Quick switches of the AF metering methods
- Changing the metering field size (only **Field** and **Eye/Face/Body Detection**)

Which of the two functions will appear first when accessing AF Quick Setting depends on the currently active AF mode.

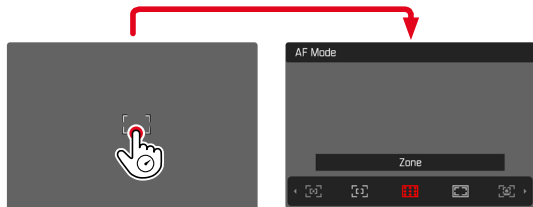
The screen image will remain visible continuously while settings are being adjusted.

### ACCESSING AF QUICK SETTING

- ▶ Tap and hold the LCD panel
  - All auxiliary displays are hidden.
  - Red triangles appear at two corners of the metering field if the metering method **Field**/**Eye/Face/Body Detection** is set.



- In all other AF modes, the **AF Mode** menu bar will be displayed directly.



### ADJUSTING THE METERING FIELD SIZE

(only **Field** and **Eye/Face/Body Detection**)

- ▶ Turn the thumbwheel
- or
- ▶ Two-finger pinch/spread
    - The size of the AF-metering field is adjustable in 3 increments.

### CHANGING THE AF METERING METHOD

Should the active AF mode be **Field** or **Eye/Face/Body Detection**, then the user will have to access the **AF Mode** menu bar first:

- ▶ Turn the front dial
  - The **AF Mode** menu bar appears.
- ▶ Select the desired metering method
  - Alternatively, you can use the front dial for the setting.
  - The setting is applied automatically after 3 seconds, the menu bar disappears.

### Note

- AF Quick Setting can only be accessed if the function **Touch AF** is active (see p. 102).



## MF ASSIST FUNCTIONS

### ENLARGEMENT IN AF MODE

You can access the enlargement function independent of focusing for a better assessment of the settings.

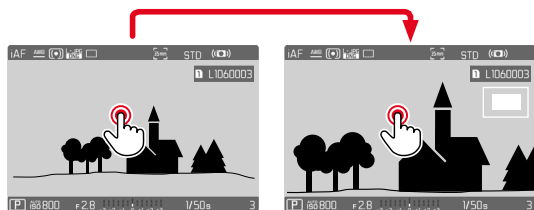
The **Magnification** function must be assigned to one of the function buttons to use this feature (see p. 71).

#### Assigning a function to a function button

- ▶ See p. 71

#### Accessing the enlargement function

- ▶ Press the function button
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.



#### Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial
  - The image section toggles between magnification factors.

#### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

#### Exiting the enlargement function

- ▶ Tap the shutter button

#### Notes

- The enlargement function remains active until it is exited.
- The most recently magnification function will still be active the next time the feature is accessed.



## AF ASSIST LAMP

The integrated AF assist lamp allows operation of the AF system in unfavorable lighting conditions. This lamp comes on while metering is performed, provided the function is activated.

See p. 110 for settings.

## ACOUSTIC AF CONFIRMATION

You can set an acoustic confirmation signal for successful focus metering in AF mode (see p. 85).

## SHIFTING THE AF METERING FIELD

All AF metering methods permit shifting the AF metering field before focusing.

- ▶ Press the joystick in the relevant direction  
or
- ▶ Tap the LCD panel in the desired position  
(while Touch AF is activated)

### Notes

- The metering field will remain at the most recently used position for this AF metering method even if the user changes the AF metering method or the camera is switched off.
- The metering fields are joined together when the exposure metering method **Spot** is combined with the AF metering methods **Spot**, **Field** and **Zone**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

### QUICK AF METERING POSITION CHANGES

The function **Toggle Focus Point** allows seamless changes between two metering positions in photo mode.

The position of the AF metering field is reset to the center of the image when the function is initially accessed. Whenever the function is accessed after that, the AF metering field will jump back and forth between the center of the image and the most recently used focus position.

The function **Toggle Focus Point** must be assigned to one of the function buttons (see p. 71).

### Note

- This function is available in the AF modes **Spot**, **Field**, **Zone** and **Tracking**.

## MANUAL FOCUSING (MF)

Focusing manually may in some situations be a better choice than autofocus.

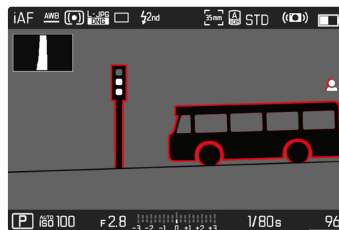
- the same setting is used for several shoots
  - it would take longer to use the metering memory lock function
  - the setting is to be kept at infinity for landscape pictures
  - poor, i.e. very dark lighting conditions prevent AF operation or would slow it down
- ▶ Select **Focusing** in the main menu
  - ▶ Select **Focus Mode**
  - ▶ Select **MF**
- ▶ Turn the focus ring until the desired part of the object is in clear focus


## MF ASSIST FUNCTIONS

The following assist functions are available in MF mode.

### FOCUS PEAKING

This assist function highlights the edges of in focus subject elements in color.



When Focus Peaking is activated,  will appear to the right of the frame with a display of the color used. The color can be user-specified. The sensitivity can be additionally adjusted. The activation of this function is controlled vis the info profiles (see p. 104).

- ▶ Activate the function
- ▶ Turn the focus ring to mark the desired subject elements

### Note

- Focus peaking is based on subject contrast, i.e. differences between light and dark. As a result, high contrast subject elements could be marked, even if they are not completely in focus.





## ENLARGEMENT IN MF MODE

The larger the details of the subject are shown, the better you can assess their sharpness and the more accurately you can focus.

This function can be automatically activated during manual focusing or can be accessed independently.

### ACCESS VIA THE FOCUS RING

Turning the focus ring will automatically enlarge a image section.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Auto Magnification**
- ▶ Select **On**
- ▶ Turn the focus ring
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.

### Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial

### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

### Exiting the enlargement function

- ▶ Tap the shutter button

or

- ▶ Decrease the enlargement, until the full image is visible again

### Note

- The enlargement will automatically return to normal viewing size about 5 s after the last movement of the focus ring.

## FUNCTION BUTTON/JOYSTICK ACCESS

This function can be assigned to a function button or the joystick.

### Assigning a function to a function button

- ▶ See p. 71

### Assigning the function to the joystick

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **Magnification**

### Accessing the enlargement function

- ▶ Press the function button/Joystick
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.

## Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial

### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

### Exiting the enlargement function

- ▶ Tap the shutter button

### Note

- The enlargement function remains active until it is exited.





## DISTANCE DISPLAY

Distance information is shown in the top display during manual focusing.

- Focus Mode MF: when the shutter button is pressed to the first pressure point
- Focus Mode AF: when the shutter button is pressed and held at the first pressure point, followed by a turning of the focus ring

The unit of measure (m or ft) can be selected, see p. 81.

### Note

- The focus distance is estimated based on the focus position transmitted by the lens.

## USING AUTOFOCUS IN MF MODE

The joystick can be used as needed for automatic focusing. The AF modes AFs and AFc are available.

You can also concurrently carry out exposure metering and save the resulting value (see p. 141).

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **MF Mode**
- ▶ Select the desired setting  
(AFs, AFs + AE-L, AFc, AFc + AE-L)

The metering functions are distributed as follows while the joystick is pressed and held:

Menu settings	Joystick	Shutter button
AFs + AE-L AFc + AE-L	Exposure and focus	–
AFs AFc	Sharpness	Exposure

- ▶ Aim at the object
- ▶ Press and hold the joystick
  - The measurement is taken and saved.
- ▶ Store more measurements via the shutter button as needed
- ▶ Select the final image section
- ▶ Shutter release



## ISO SENSITIVITY

The ISO setting covers a range between ISO 50 and ISO 100 000, allowing you to adapt to the relevant situation as required.

There is more leeway for the use of preferred shutter-speed/aperture combinations when setting the exposure manually. You can set priorities within the scope of the automatic setting, e.g. for reasons of picture composition.

Factory setting: **Auto ISO**

## FIXED ISO VALUES

Values between ISO 50 and ISO 100 000 can be selected in 12 increments. The manual ISO setting occurs in full EV increments.

- ▶ Select **ISO** in the main menu
- ▶ Select the desired value

### Note

- When high ISO values are used or the image is edited later, image noise, as well as vertical and horizontal stripes may become visible, particularly in larger, evenly lit areas of the object.

## AUTOMATIC SETTING

The camera automatically adjusts the sensitivity to ambient brightness and/or to the configured shutter-speed/aperture combination. In conjunction with aperture priority mode, this function extends the range for automatic exposure control. The automatic setting of ISO sensitivity occurs in increments of 1/2 EV or 1/3 EV, depending on the selected **EV Increment** setting.

- ▶ Select **ISO** in the main menu
- ▶ Select **Auto ISO**

## LIMITING SETTING RANGES

A max. ISO value can be set, which will then limit the automatic setting range (**Maximum ISO**). A max. exposure time can also optionally be configured. There are automatic settings and fixed max. shutter speeds **1/2**s and **1/2000**s available for that purpose. Separate settings are available for flash photography.

## LIMITING ISO VALUES

All values from ISO 100 are available.

Factory setting: **6400**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Maximum ISO**
- ▶ Select the desired value



## LIMITING SHUTTER SPEED RANGES

Factory setting: **Auto**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit**
- ▶ Select the desired value  
(**Auto**, **1/2000**, **1/1000**, **1/500**, **1/250**, **1/125**, **1/60**, **1/30**, **1/15**,  
**1/8**, **1/4**, **1/2**)

## LIMITING ISO VALUES (FLASH)

All values from ISO 100 are available.

Factory setting: **6400**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Maximum ISO with Flash**
- ▶ Select the desired value

## LIMITING SHUTTER SPEED RANGES (FLASH)

Factory setting: **1/15**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit (Flash)**
- ▶ Select the desired value  
(**Auto**, **1/250**, **1/125**, **1/60**, **1/30**, **1/15**, **1/8**, **1/4**, **1/2**)

## DYNAMIC ISO SETTING

The thumbwheel and front dial can be configured to allow manual ISO settings in real time. Turning the dial will cycle through all setting values available in the **ISO** menu (including **Auto ISO**).



## FLOATING ISO

This function complements Auto ISO. Light strength changes with many zoom lenses when the focal length is changed. Floating ISO will in this situation adjust the sensitivity in fine graduations and will simultaneously ensure that the selected settings of aperture value and shutter speed remain constant in (semi) automatic exposure modes. This will specifically in video shootings prevent visible jumps in brightness.

Factory setting: **On**

- ▶ Select **Floating ISO** in the main menu
- ▶ Select **On**

### Note

- **Floating ISO** can work only if the original ISO setting allows scope for change, i.e. the highest/lowest ISO setting is not already being used. The **Floating ISO** warning icon will be displayed in that case.

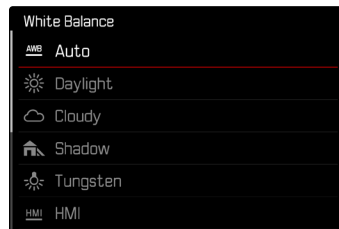
## WHITE BALANCE

In digital photography, White Balance ensures neutral color rendering in any light. White Balance relies on the setting made in the camera, which light color is to be rendered as 'white'.

Four methods are available:

- automatic control
- fixed presets
- manual setting via metering
- direct setting of the color temperature

Factory setting: **Auto**





## AUTOMATIC CONTROL/FIXED SETTINGS

- **Auto**: for automatic control, which delivers neutral results in most situations
- Various fixed presets for most frequently encountered light sources:

Daylight	For outdoor shootings in sunlight
Cloudy	For outdoor shootings in cloudy conditions
Shadow	For outdoor shootings with the main subject in shadow
Tungsten	For indoor shootings with (predominantly) incandescent lamp light
HMI	For indoor shootings with (predominantly) light from metal halide lamps
Fluorescent (warm)	For indoor shootings with (prevailing) light from fluorescent tubes with warm light color
Fluorescent (cool)	For indoor shootings with (prevailing) light from fluorescent tubes with cool light color
Flash	For flash photography

- ▶ Select **White Balance** in the main menu
- ▶ Select the desired setting

## MANUAL SETTING VIA METERING

( **Gray card** / **Gray card Live View**)

The variant **Gray card** is suited best for subjects in which you can clearly identify a neutral gray or pure white area. If not, or should you base your metering on an off-center detail, then **Graycard Live View** will be a better choice.

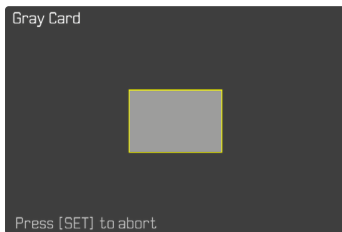
### Note

- A value configured using this method will remain unchanged (i.e. it will be used for all subsequent photographs) until new measurements are taken or one of the other white balance settings is selected.

## GRAY CARD

This metering variant captures all color hues in the metering field and uses these to calculate a mean gray value.

- ▶ Select **White Balance** in the main menu
- ▶ Select **Gray card**
  - The following appears on the LCD panel:
    - the image based on automatic white balance
    - a frame in the center of the image



- ▶ Aim the metering field at a white or neutral gray area
  - The screen image changes dynamically in line with the reference area in the frame.

### Performing measurement

- ▶ Shutter release

or

- ▶ Press the joystick/thumbwheel
  - The measurement is taken.

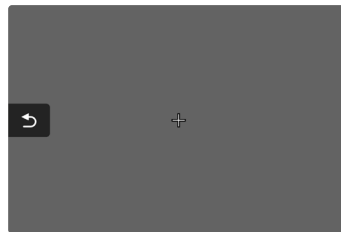
### Cancelling measurements

- ▶ Press the **FN** button

## GRAY CARD LIVE VIEW

This metering variant captures only the color hue metered within the metering field and calculates the mean gray value from it.

- ▶ Select **White Balance** in the main menu
- ▶ Select **Graycard Live View**
  - The following appears on the LCD panel:
    - the image based on automatic white balance
    - a cross in the middle of the image



- ▶ Aim the metering field at a white or neutral gray area

### Repositioning the metering field

- ▶ Press the joystick in the relevant direction

### Performing measurement

- ▶ Shutter release

or

- ▶ Press the joystick/thumbwheel
  - The measurement is taken.

### Cancelling measurements

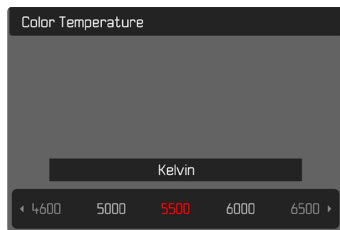
- ▶ Press the **FN** button





## DIRECT SETTING OF THE COLOR TEMPERATURE

Values between 2000 and 11500 K (Kelvin) can be set directly. That gives you a very wide range, which covers virtually all color temperatures occurring in real life and within which you can adapt color rendering to any light color and your personal preferences with incredible detail.

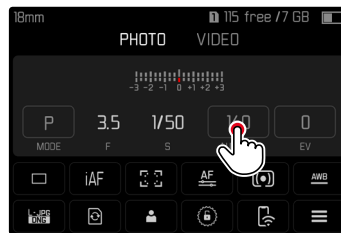


- ▶ Select **White Balance** in the main menu
- ▶ Select **Color Temperature**
- ▶ Select the desired value

## EXPOSURE

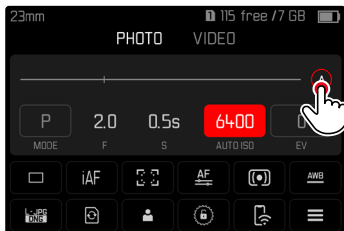
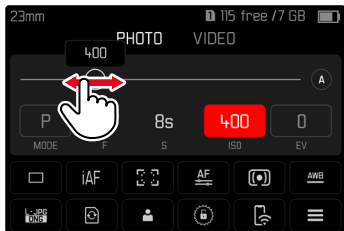
The exposure setting is done dynamically via the two setting wheels. As a rule, the thumbwheel controls the aperture and the front dial the shutter speed. The “free” dial is used for quick access to exposure compensation during semi automatic exposure setting. Function assignments can be modified, see p. 72.

Exposure settings can be done quickly and easily via the status screen.



- ▶ Tap the desired control panel
  - The active control panel is highlighted in red.
  - A setting band appears instead of the light balance. A dot marks the current setting. The current setting value is displayed above the dot.

- ▶ Tap the setting band briefly in the desired position, or drag the dot to the desired position



## SHUTTER TYPE

The Leica SL2-S comes equipped with a mechanical shutter and a purely electronic shutter function. The electronic shutter expands the available shutter area and functions completely noiseless, which may be important in some work environments.

Factory setting: **Hybrid**

- ▶ Select **Shutter Type** in the main menu
- ▶ Select the desired setting  
(**Mechanical**, **Electronic**, **Hybrid**)

<b>Mechanical</b>	Only the mechanical shutter is used. Working range: 30 min to 1/8000s.
<b>Electronic</b>	Only the electronic shutter function is used. Working range: 60s to 1/16000s.
<b>Hybrid</b>	You can add the electronic shutter function if you need faster shutter speeds than can be achieved with the mechanical shutter. Working range: 30 min to 1/8000s + 1/8000s to 1/16000s.



## APPLICATION

The classic shutter sound of the mechanical shutter conveys an auditory feedback. It is well suited for long-term exposures, as well as for shots of moving objects.

The electronic shutter function allows photography with an open aperture in very bright due to very fast shutter speeds. The distinctive “rolling shutter” effect makes it less suitable for moving objects.





## Notes

- The electronic shutter function does not allow flash photography.
- The electronic shutter function in combination with fast shutter speeds can result in stripe effects on the images when used with LED or fluorescent tube lighting.

## EXPOSURE METERING METHODS

The following exposure metering methods are selectable.

Factory setting: **Multi-Field**

-  Spot
-  Center-weighted
-  Highlight-Weighted
-  Multi-field

- ▶ Select **Exposure Metering** in the main menu
- ▶ Select the desired metering method (**Spot**, **Center-Weighted**, **Highlight-Weighted**, **Multi-Field**)
  - The selected metering method is displayed in the header line of the screen image.

Spot metering allows a shifting of the metering field:

- ▶ Press the joystick in the relevant direction

## Notes

- The exposure information (ISO value, aperture, shutter speed and light balance with exposure compensation scale) will help to determine the settings required for correct exposure.
- The most important displays (ISO value, aperture and shutter speed) will also appear in the top display.

## SPOT

This metering method is concentrated exclusively on a small area in the center of the image. The metering fields are joined together when the exposure metering method **Spot** is combined with the AF metering methods **Spot**, **Field** and **Zone**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

## CENTER-WEIGHTED



This method considers the entire image field. The subject elements captured in the center will, however, impact on the calculation of the exposure value more so than areas around the edges.

## MULTI-FIELD

This metering method is based on the detection of multiple values. These values are used in an algorithm to calculate an exposure value appropriate for a good rendering of the assumed main subject.

## HIGHLIGHT-WEIGHTED

This method considers the entire image field. The exposure value will, however, be adjusted to very bright subject elements. That prevents the overexposure of bright subject elements without having to measure them individually. This metering method is particularly useful for objects that are significantly more brightly lit than the rest of the picture frame (e.g. people in a spotlight), or that reflect the light significantly (e.g. white clothing).

Multi-field	Highlight-weighted
	
	
	



## EXPOSURE MODES

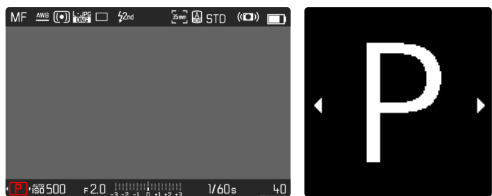
There are four exposure modes available to adjust the rendering of the object or to create the desired pictorial composition:

- Automatic program (**P**)
- Aperture priority mode (**A**)
- Shutter speed priority mode (**S**)
- Manual setting (**M**)

## SELECTING A MODE

### Via the thumbwheel

- ▶ Press the thumbwheel
  - The currently selected mode is shown in the top display. The currently selected mode is marked in red on screen.
- ▶ Turn the thumbwheel to select the desired mode
  - The mode display changes in the top display and on screen. All modes can be reached by turning the wheel in either direction.
  - The selected mode will be applied automatically approx. 2 s after the thumbwheel is moved the last time.

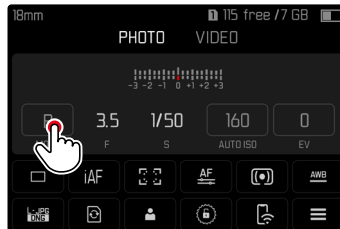


## Applying the selected mode immediately

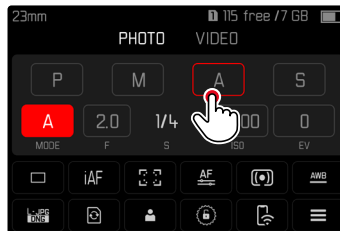
- ▶ Press the joystick/thumbwheel
- or
- ▶ Tap the shutter button

### Via the status screen

- ▶ Tap the control panel



- ▶ Tap the desired exposure mode



## Note

- When using a lens with an aperture ring (e.g. Leica M lenses), only the exposure modes **A** (aperture priority) and **M** (manual setting) will be available. Where that is the case, **F0.0** is displayed as the aperture value.



## FULLY AUTOMATIC EXPOSURE SETTING – P


### AUTOMATIC PROGRAM – P

The automatic program mode facilitates fast and fully automatic photography. The exposure is controlled by an automatic shutter speed and aperture setting.

- ▶ Select the operating mode **P** (see p. 136)
  - ▶ Tap and hold the shutter button
    - Exposure information is displayed at the bottom of the screen. This contains the automatically set value pair of aperture setting and shutter speed.
    - All other visible displays of the info bars will be hidden.
  - ▶ Shutter release
- or
- ▶ Adjusting the automatically set value pair (Program shift)

### CHANGING THE PRESET SHUTTER SPEED AND APERTURE COMBINATIONS (SHIFT)

Changing the preset values using the Shift function combines the reliability and speed of fully automatic exposure control with the opportunity to vary the speed/aperture combination selected by the camera at any time to fit in with your own ideas and intentions. The overall exposure, i.e. the brightness of the image, remains unchanged. Faster shutter speeds are a good choice for e.g. sports pictures, while longer speeds will offer more depth of field for e.g. landscape pictures.

- ▶ Turn the thumbwheel to the left/right (right = greater depth of field with slower shutter speeds, left = faster shutter speeds with lesser depth of field)
  - Shifted value pairs are marked with an asterisk next to the . The icon in the top display changes from **P** to **Ps**.

#### Note

- The adjustment range is limited to guarantee correct exposure.





## SEMI-AUTOMATIC EXPOSURE SETTING – A/S

### APERTURE PRIORITY - A

Aperture priority mode sets the exposure automatically according to the manually selected aperture. This mode is suitable for pictures in which the depth of field is a critical compositional element.

By selecting an appropriately low aperture value, you can reduce the depth of field range, for example to make a face “stand out” in sharp focus against an unimportant or distracting background for a portrait. Conversely, you can use a higher aperture value to increase the depth of field range, so that everything from the foreground to the background will be in full focus in a landscape shot.

- ▶ Select the operating mode **A** (see p. 136)
- ▶ Set the desired aperture value
- ▶ Tap and hold the shutter button
  - Exposure information is displayed at the bottom of the screen. This contains the automatically set value pair of aperture setting and shutter speed.
  - All other visible displays of the info bars will be hidden.
- ▶ Shutter release

#### Note

- The remaining exposure time after shutter release is counted down in seconds on the display for shutter speeds greater than 2 s.

### SHUTTER SPEED PRIORITY – S

Shutter speed priority mode will set exposure automatically according to the manually selected shutter speed. It is therefore particularly suitable for pictures of moving objects, where the sharpness of the movement depicted is a critical picture composition element.

An appropriately fast shutter speed can help to avoid e.g. unwanted motion blurring and will “freeze” the object. Conversely, an appropriately longer shutter speed can help create a better feeling of motion in the image with targeted “tracer effects”.

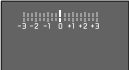


- ▶ Select the operating mode **S** (see p. 136)
- ▶ Select the desired shutter speed
- ▶ Tap and hold the shutter button
  - Exposure information is displayed at the bottom of the screen. This contains the automatically set value pair of aperture setting and shutter speed.
  - All other visible displays of the info bars will be hidden.
- ▶ Shutter release

## MANUAL EXPOSURE SETTING – M

The following manual settings for shutter speed and aperture are a good choice:

- to create a special image mood that can only be achieved with a very specific type of exposure
- to ensure a perfectly identical exposure for multiple images with different cropped sections
- ▶ Select the operating mode **M** (see p. 136)
- ▶ Select desired exposure
  - The exposure compensation is done using the scale of the light balance.
- ▶ Tap and hold the shutter button
  - Exposure information is displayed at the bottom of the screen.
  - All other visible displays of the info bars will be hidden.
- ▶ Shutter release

Displays on the light balance:

	Correct exposure
	under/overexposure by the displayed value
	under or overexposure by more than 3 EV

### Note

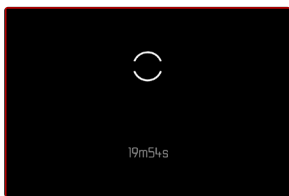
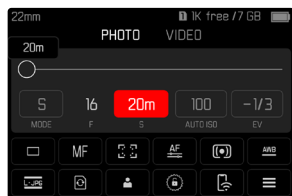
- The screen image will show an exposure preview if **P-A-S-M** is selected in the menu item **Exposure Preview** (after exposure metering, see p. 141).



## LONG-TERM EXPOSURE

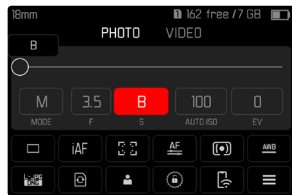
### FIXED SHUTTER SPEEDS

In the modes **S** and **M**, the Leica SL2-S allows shutter speeds up to 30 minutes. The remaining exposure time after shutter release is counted down in seconds on the display for shutter speeds greater than 1 s.



### B FUNCTION

Using the **Bulb** setting in **M** mode will leave the shutter open as long as the shutter button remains pressed (max. 30 min; depending on ISO setting).



- ▶ Select the operating mode **M** (see p. 136)
- ▶ Turn the front dial in clockwise direction until **B** is displayed as the shutter speed

### Notes

- Image noise becomes more apparent when using higher sensitivities, particularly on uniform dark areas. Long exposure times may cause severe image noise. In order to reduce this annoying phenomenon, the camera will take a second “black picture” (taken with the shutter closed) automatically after a shooting with slow shutter speed and high ISO value. The noise metered in this parallel image is then digitally “subtracted” from the data for the actual image. In such cases the message **Noise reduction in progress...** will appear with a relevant time value. The doubling of the “exposure” time must be taken into account for long-term exposure times. The camera must not be switched off during that time.
- The maximum selectable shutter speed depends, among other things, on the setting of the menu item **Shutter Type**, see p. 133.

## EXPOSURE CONTROL

### EXPOSURE PREVIEW

The brightness of the screen image mirrors the effects of the selected exposure settings when pressing and holding the shutter button on the first pressure point. You can now assess and control the effect of the relevant exposure setting on the image before taking the picture. This will apply as long as the subject brightness and the set exposure don't result in excessively low or high brightness values.

This function can be disabled for the manual exposure setting (**M**).

Factory setting: **P-A-S-M**

- ▶ Select **Live View Settings** in the main menu
- ▶ Select **Exposure Preview**
- ▶ Select **P-A-S** (only in automatic, aperture priority and shutter speed priority mode) or **P-A-S-M** (also for manual setting)

### Notes

- Depending on ambient lighting conditions, the brightness of the screen image may differ from that of the actual pictures, despite the settings described above. The screen image will appear considerably darker than the – correctly exposed – picture. That is particularly the case in long-term exposures.
- The exposure preview will also be displayed if exposure metering is done via another control element (e.g. using the joystick, provided it is assigned the **AE-L** function).

## EXPOSURE LOCK

We often want to arrange important subject elements outside the center of the picture for reasons of picture composition and these elements may sometimes be very bright or very dark. Center-weighted metering and spot metering, however, mainly capture an area in the center of the image and are calibrated to an average gray scale value.

In that case, the exposure lock initially allows a metering of the main subject, as well as storing of the relevant settings until the final image section is set. The same applies for focusing (AF-L) in any autofocus mode.

Usually both lock functions (focusing and exposure) are done at the same time with the shutter button. You can, however, divide the lock functions between the shutter button and the joystick or assign both to the joystick. The functions include settings and storage.





### AE-L (AUTO EXPOSURE LOCK)

The camera stores the exposure value. The focus can therefore be set on another object, no matter which exposure value is selected.

### AF-L (AUTO FOCUS LOCK)

The camera stores the focus setting. That makes it easier to change the image section when focusing is fixed.

### AE-L/AF-L

This option allows the camera to store the exposure value and the focus setting when the joystick is pressed and held.

### Notes

- An exposure lock doesn't make much sense in conjunction with multi-field metering, because a targeted capture of an individual object element will not be possible.
- A change in the aperture setting after the exposure lock is set will not result in an adjustment of the shutter speed, i.e. the end result would be an incorrect exposure.

### EXPOSURE LOCK IN AF MODE

The metering functions are distributed as follows while the joystick is pressed and held:

Menu settings	Joystick	Shutter button
AF-L + AE-L	Exposure and focus	No function
AF-L	Sharpness	Exposure
AE-L	Exposure	Sharpness

The shutter button will store both measured values if the joystick is not pressed.

### Via the shutter button

- ▶ Aim at the key part of the object or at a similar detail
- ▶ Tap and hold the shutter button
  - The measurement is taken and saved.
- ▶ Pan the camera to capture the final image section while keeping the shutter button pressed
- ▶ Shutter release

### Via the Joystick

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **AF Mode**
- ▶ Select the desired setting
- ▶ Press and hold the joystick
  - The measurement is taken and saved.
- ▶ Store more measurements via the shutter button as needed
- ▶ Select the final image section
- ▶ Shutter release

### **EXPOSURE LOCK IN MF MODE**

In MF mode, only the exposure can be locked via the shutter button. This function can also be assigned to the joystick.

The exposure value is saved via the shutter button independent of the setting if the joystick is not pressed.

### Via the shutter button

- ▶ Aim at the key part of the object or at a similar detail
- ▶ Tap and hold the shutter button
  - The measurement is taken and saved.
- ▶ Select the final image section
- ▶ Shutter release

### Via the Joystick

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Joystick**
- ▶ Select **MF Mode**
- ▶ Select **AE-L**
- ▶ Press and hold the joystick
  - The measurement is taken and saved.
- ▶ Select the final image section
- ▶ Shutter release

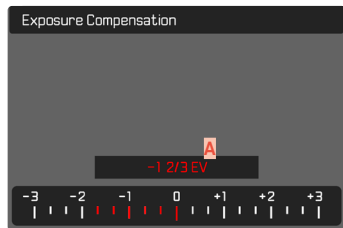


## EXPOSURE COMPENSATION

Exposure meters are calibrated for a medium gray scale value, which matches a standard, i.e. average image object. Should the measured image detail not fulfill that requirement, then the a relevant exposure compensation can be effected.

Specifically where several shots are taken in sequence, for example if for a series a slightly lesser or greater exposure is desired for a particular reason, then exposure compensation can be a very useful function: Unlike with exposure lock, the setting remains active until it is reset.

Exposure compensation values can be set in the range  $\pm 3$ EV. The available values depend on the global setting **EV Increment** (see p. 103).



**A** Set compensation value (marks at 0 = Off)

### Using thumbwheel control

This function is assigned to one of the setting wheels in the three (semi) automatic exposure modes and therefore quickly accessible (see p. 72).

### Using menu control

- ▶ Select **Exposure Compensation** in the main menu
  - A scale appears as a submenu item on the LCD panel.
- ▶ Set the value on the scale
  - The set value is displayed above the scale.
  - While setting the value, you can see the effect on the screen image, which becomes darker or lighter.

### Notes


- The following applies for set compensation values, no matter how they were initially set: They remain effective until they are manually reset to 0, even if the camera is switched off and on again in the meantime.
- The set exposure compensation is indicated by a mark on the exposure compensation scale in the footer line.
- Changes to the **EV Increment** setting (see p. 103) lead to the cancellation of a compensation that has been set, i.e. in such cases it is automatically reset to 0.

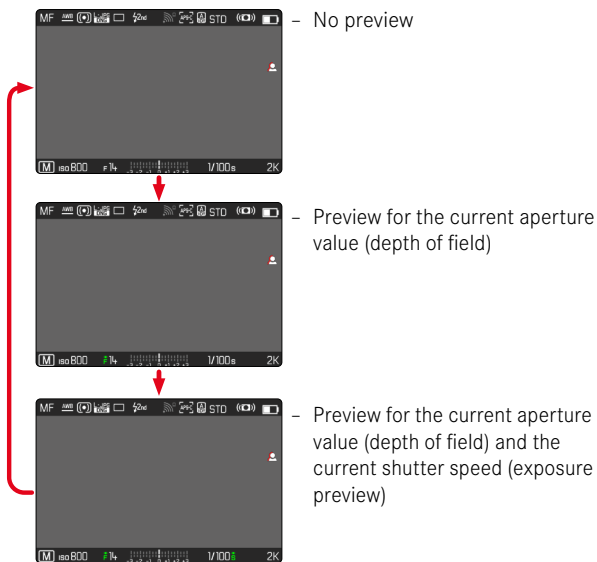


## DEPTH OF FIELD CHECK

This function simulates the effects of the current aperture and shutter speed settings. It allows the user to assess the exposure and depth of field of the image before shooting. The function is similar to that of the depth-of-field preview button.

- ▶ Assigning the function **Exposure/DOF Simulation** to a function button
- ▶ Press the function button
  - The display cycles through the display options.

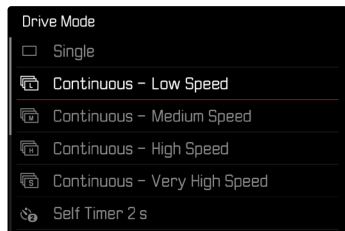
When the exposure information is visible, a green eye symbol  next to the values for aperture and shutter speed will display the active depth of field/exposure preview. The relevant unit of measure icon will additionally appear in green.



## SHOOTING MODES

### CONTINUOUS SHOOTING MODE

The camera is set to single shots by default (Single). Series of shots can also be created to e.g. capture motion sequences at various stages.



- ▶ Select **Drive Mode** in the main menu
- ▶ Select the desired setting  
(**Continuous - Low Speed**, **Continuous - Medium Speed**, **Continuous - High Speed**, **Continuous - Very High Speed**)

Once you have finalized your settings, the camera will do continuous shootings as long as you keep the shutter button pressed down fully (and you have sufficient space on your memory card).

#### Notes

- We recommend deactivating the preview mode (**Auto Review**) when using this function.
- The specified picture sequence stated in the technical information refers to a default setting (**ISO 200**, JPG format **L-JPG**). The picture sequence may differ in conjunction with other settings or depending on the picture content, **White Balance** setting and the memory card used.

- Regardless of how many frames were taken in a series, the last picture in the series or the last image in the series or the last image saved on the memory card while the saving process is ongoing will be displayed first in both review modes.
- Continuous shooting is not possible if a flash is used. Only a single picture will be taken if the flash function is activated.
- Continuous shooting mode is not available in combination with the self-timer function.
- The buffer memory of the camera only allows a limited number of frames in series and in the selected exposure frequency. The exposure frequency is reduced, once the capacity limit of the camera's buffer memory is reached. This slow-down is due to the time required to transfer the data from the buffer memory to the card. The remaining number of exposures is displayed at the bottom right.
- **Continuous - Low Speed/Continuous - Medium Speed:** For the modes **AfS**, **AfC** and **MF**, the exposure and white balance settings are done individually for every shooting. Focusing is done additionally in the modes **AfS** and **AfC**.
- **Continuous - High Speed/Continuous - Very High Speed:** In the modes **AfS**, **AfC** and **MF** the exposure, focus and white balance settings specified for the first shoot will be applied to all subsequent shoots.



## INTERVAL SHOOTING

This camera allows you to automatically capture motion sequences over extended periods of time using the interval shooting function. You specify the number of frames, the intervals between shots, and the start time of the series.

When applying exposure and focus settings, keep in mind that conditions may change during the course of the operation.

### SPECIFYING THE NUMBER OF FRAMES

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Interval Shooting**
- ▶ Select **Number of Frames**
- ▶ Enter the desired value

### SPECIFYING THE INTERVALS BETWEEN SHOTS

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Interval Shooting**
- ▶ Select **Interval**
- ▶ Enter the desired value

### SETTING THE DELAY TIME

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Interval Shooting**
- ▶ Select **Countdown**
- ▶ Enter the desired value

## Getting started

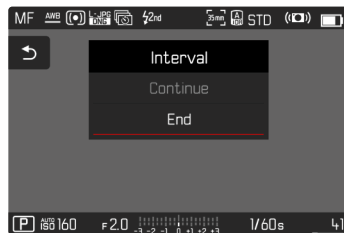
- ▶ Press the shutter button
  - The remaining time until the next shoot and its number is displayed at the top right.



- The camera will switch off automatically between shoots. Tapping the shutter button reactivates the camera.

## Cancelling a running series of shots

- ▶ Press the joystick
  - A small menu appears.
- ▶ Select **End**






## Notes

- The use of autofocus in interval shooting may result in not all exposures having their focus on the same object.
- Interval shooting over an extended period of time in a cold location or in a place with high temperature and humidity may result in malfunctions.
- Interval shooting will be interrupted or canceled in the following situations:
  - if the battery is depleted
  - if the camera is switched off

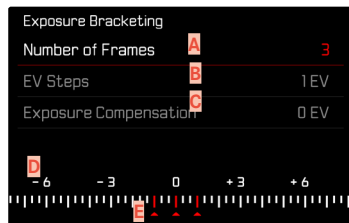
Make sure to check the battery for sufficient charge.

- Interrupted or canceled interval shooting can be resumed by switching the camera off, replacing the battery or memory card as needed and then switching the camera back on. A prompt will be displayed on screen if the camera is switched off and on again while the **Interval Shooting** shooting function is active.
- The interval function remains active after a picture series is completed, and also after the camera is switched off and on again, until another shooting mode (Drive Mode) is set.
- Availability of the interval function does not mean that the camera is suitable for use as a monitoring device.
- Regardless of how many pictures were taken in a series, the last picture in the series or the last picture in the series or the last picture saved on the memory card while the saving process is ongoing will be displayed first in both review modes.
- The pictures of an interval shooting are marked with  in review mode.

- The camera may under some circumstances be unable to take good pictures. That may happen if, for example, focusing was unsuccessful. In that case, the camera will not take a picture and the series will continue with the next interval. The message **Some Frames are dropped** appears on screen.

## EXPOSURE BRACKETING

Many attractive objects are rich in contrast, which means they have very bright and very dark areas. The image effect can be dramatically different, depending on which of these areas you choose to align your exposure with. The automatic bracketing function in aperture priority mode allows you to produce several alternatives with graduated exposure values and varying shutter speeds. You can then select the picture you like best or use relevant picture editing software to calculate an image with a particularly broad contrast spectrum (HDR).




- A** Number of frames
- B** Exposure difference between shots
- C** Exposure compensation
- D** Light value scale
- E** Exposure values of the images marked in red  
(The scale will be offset by the relevant value if exposure compensation is set concurrently.)

You can select the desired number of frames (3 or 5). The exposure difference, which can be set via **EV Steps**, can be up to 3EV. The available values depend on the global setting **EV Increment** (see p. 103).

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Exposure Bracketing**
- ▶ Select the desired number of frames under **Number of Frames** in the submenu
- ▶ Select the desired exposure offset under **EV Steps** in the submenu
- ▶ Select the desired **Exposure Compensation** value in the submenu
  - The marked exposure values change positions according to the settings selected. In the case of exposure compensation, the scale also shifts.
  - The selected exposure compensation value will be applied to the entire series of shots.
- ▶ Shutter release



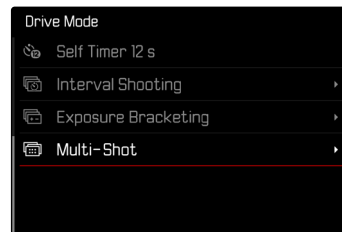
## Notes

-  appears on the LCD panel if the bracketing function is activated. You can watch the effect of the function on screen while the pictures are taken (brighter or darker).
- Depending on the exposure mode, the exposure gradations are produced by changing the shutter speed and/or aperture value:
  - Shutter speed (**A/M**)
  - Aperture (**S**)
  - Shutter speed and aperture value (**P**)
- The picture sequence: underexposure/correct exposure/overexposure.
- The working range for automatic bracketing may be limited depending on the available shutter-speed/aperture combination.
- With automatic ISO sensitivity control enabled, the sensitivity calculated by the camera automatically for the raw picture will also be applied to all other shots in the series, i.e. the ISO value will not change during bracketing. This may mean that the slowest shutter speed specified under **Shutter Speed Limit** is exceeded.
- The focus range for automatic bracketing may be limited (depending on the originally set shutter speed). The specified numbers of frames will be taken regardless. Several shots in a series may consequently have the same exposure values.
- The function remains active until another function is selected from the **Drive Mode** submenu. If no other function is selected, another bracketing is taken each time the shutter button is pressed.

## MULTISHOT

In multishot mode, up to 8 individual images are taken with a very small offset. To do so, the sensor is moved minimally between the individual shooting (by less than a pixel width). The individual images are then merged into a single shot with extremely high resolution (96 MP) and a standard size DNG image is additionally saved.

Multishot images are highly sensitive to camera shake. It is therefore recommended to place the camera on a tripod.



- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Multi-Shot**

## SETTING THE DELAY TIME

Factory setting: 2 s

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Multi-Shot**
- ▶ Select **Self Timer**
- ▶ Select the desired setting  
(Off, 2 s, 12 s)

## MOTION ARTEFACTS CORRECTION

As multiple shots are taken in series, any movement in the frame can result in ghost images. These artefacts are automatically corrected in factory settings. This function can also be deactivated to increase camera performance.

Factory setting: On

- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Multi-Shot**
- ▶ Select **Motion artefacts correction**
- ▶ Select **On/Off**

## Notes

- A multishot images will not be created if motion artefacts correction fails. The "standard" DNG image will, however, remain intact.
- A deactivation of the motion artefacts correction can further improve image sharpness for completely immobile objects.
- This function is not available in conjunction with APS-C lenses and in some cases with some lenses attached via adapter.
- The following limitations apply when using **Multi-Shot**: Exposure time  $\leq 1$  s, aperture value  $\leq F16$ , ISO value  $\leq 3200$ .
- The electronic shutter function is always used for multishot shootings. The multishot function remains deactivated when the **Shutter Type** is set to **Mechanical**.
- Multishot shootings are not possible if a flash is used.
- The multishot function creates very large image files. Sufficient storage space on the memory card is essential.
- The message **Vibration detected. Ensure a robust, level surface.** appears in the display if the camera-internal sensors detect movement.



## SELF-TIMER

The self-timer function allows taking pictures with a preset time delay. We recommend that the camera is placed on a tripod.



- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Self-timer 2 s**/**Self-timer 12 s**
- ▶ Shutter release
  - The remaining time until exposure is counted down on screen. The self-timer LED at the front of the camera counts down the delay time. It flashes slowly during the first 10 s, then fast for the last 2 s.
  - The self-timer delay time can be canceled at any time by tapping the shutter button; the relevant settings remain intact.

## Notes

- Exposure metering is done first; in autofocus mode, focusing is first. Only then will the delay time commence.
- The self-timer function is only available for single frame shootings.
- The function remains active until another function is selected from the **Drive Mode** submenu.



## SPECIAL SHOOTING MODES

### IMAGE OVERLAY

Leica SL2-S allows a transparent overlay over previous shots as an image composition tool. That way, objects can be recorded from the exact same position at different times, or various objects can be aligned exactly against the same background in multiple shooting sessions. The transparent overlay image will not be visible in the finished image.

One usage scenario would be the creation of an image series in front of a tree across an entire year. The precise alignment of the image would also allow the creation of a time lapse shooting.



### TRANSPARENCY

The transparency of the overlay image can be adjusted in line with e.g. lighting conditions.

- ▶ Select **Image Overlay** in the main menu
- ▶ Select **Transparency**
- ▶ Select **High/Low**

### IMAGE SELECTION

Any image from the memory card can be selected for the image overlay.

- ▶ Select **Image Overlay** in the main menu
- ▶ Select **Choose Overlay Image**
  - The Image Selection display appears.



- In Image Selection view, all recorded images appear in full screen mode. An overview of all images in thumbnail size is not available. The info displays can be accessed as before.

### Note

- It may not be possible to render files with this camera that were not recorded with this device. The same applies to the Overlay function.



## Browsing through the images

- ▶ Press the joystick left/right

or

- ▶ Turn the thumbwheel

or

- ▶ Swipe to the left or right

## Selecting a recorded image

- ▶ Press the joystick/thumbwheel

or

- ▶ Directly select the control element “Confirm”

## Resetting the function when switching off the camera

The function settings can optionally be reset when switching off the camera.

- ▶ Select **Image Overlay** in the main menu

- ▶ Select **Reset on Turn Off**

- ▶ Select **On/Off**

- The image selection and the setting for **Use Overlay Image** will remain intact after the camera is switched off if **Off** is selected.

## ACTIVATING THE FUNCTION

- ▶ Select **Image Overlay** in the main menu

- ▶ Select **Use Overlay Image**

- ▶ Select **On/Off**

## FLASH PHOTOGRAPHY

The camera determines the necessary flash intensity by firing one or more pre-flashes before taking the actual picture. The main flash fires immediately after, i.e. during exposure. All factors influencing exposure (e.g. filters, aperture settings, distance to the main subject, reflective ceilings, etc.) are automatically considered.

### COMPATIBLE FLASH UNITS

The entire scope of functions described in this instruction manual, incl. TTL flash metering, is available only for Leica system flash units like the SF40. Other flash units, which only have a positive center contact, can be safely fired via the Leica SL2-S, but cannot be controlled via the camera. Correct function cannot be guaranteed when using any other flash unit.

#### Note

- When using flash units that are not specifically designed for the camera and can therefore not automatically switch over the white balance of the camera should be used in the **fwb** flash setting.

#### Important

- The use of incompatible flash units with your Leica SL2-S may result in irreparable damage to the camera and/or the flash unit.

#### Notes

- A flash unit that is not ready to flash may cause incorrect exposures or error messages.
- Studio flash systems may have a very long flash firing duration. It may therefore be advantageous to select a slower shutter speed than 1/180s when using such a system. The same applies for RF-controlled flash firing for so-called “off-camera” flashes, as the transmission time may cause a delay.
- Continuous shooting and automatic bracketing with flash are not available.
- Multishot shootings are not possible if a flash is used.
- Use a tripod to prevent blurring at slow shutter speeds. Alternatively, you can select a higher sensitivity.
- Depending on the setting selected in the **Auto ISO Settings** menu, the camera may not support slower shutter speeds, because an increase in ISO sensitivity takes priority.





## ATTACHING THE FLASH UNIT

- ▶ Switch off the camera and flash unit
- ▶ Slide the foot of the flash unit all the way into the accessory shoe and use the clamping nut (where available) to secure it against accidental movement
  - Movement inside the accessory shoe can interrupt required contacts and therefore cause malfunctions.

## DETACHING THE FLASH UNIT

- ▶ Switch off the camera and flash unit
- ▶ Detaching the flash unit

## FLASH EXPOSURE METERING (TTL METERING)

The camera offers a fully automated, camera-controlled flash mode in conjunction with system-compatible flash units (see p. 155) and for the auto modes aperture priority and manual setting.

In aperture priority mode and with manual setting, the camera furthermore allows the use of other interesting flash techniques like flash synchronization and firing with slower shutter speeds than the max. sync time.

The camera additionally communicates the sensitivity setting to the flash unit. The flash unit can use this information to automatically adjust its range data, provided the device comes with these displays and the aperture setting selected on the lens is also entered manually on the flash unit. The ISO sensitivity setting cannot be altered via the flash unit on system-compatible units, because the information is received from the camera.

## SETTINGS ON THE FLASH UNIT

Operating mode	
<b>TTL</b>	Automatic control by the camera
<b>A</b>	SF 40, SF 60: Automatic camera control, no flash exposure compensation SF 58, SF 64: Control via the flash unit using a built-in exposure sensor
<b>M</b>	The flash exposure must be set to an output level to match the aperture and shutter speed settings determined by the camera.

### Notes

- Set the flash unit to **TTL** mode to allow automatic control of the unit by the camera.
- When set to **A**, objects with above or below average brightness may not be exposed correctly.
- Please read the relevant manual provided with third party flash units regarding their various operating modes.

## FLASH CONTROL

The settings and functions described in the following sections only apply to settings and functions available in this camera and in system-compatible flash units.

### SYNC POINT

Flash exposures are lit by two light sources:

- existing light from the environment
- the additional flash

Any subject elements lit primarily by the flash will almost always be rendered in perfect focus by the short burst of light, provided the focus is set correctly. All other subject elements in the same frame lit by ambient light or lit from within will be rendered with varying degrees of sharpness. Whether or not these object elements will be rendered in sharp focus or blurred, as well as the degree of “blurriness” depends on two interdependent factors:

- the shutter speeds
- the speed of movement of the subject elements or camera during shooting

The longer the shutter speed and the faster the motion, the greater the difference between the two superimposed partial images.





A flash is usually fired at the start of exposure (**Start of Exp.**). This may result in apparent contradictions, e.g. the picture of a vehicle being overtaken by its own light trail. This camera allows you to synchronize the flash firing with the end of exposure (**End of Exp.**). The sharp image will in this case be a rendering of the end of the captured motion. This flash technique creates a more natural impression of movement and dynamics in the image.

This function is available with all camera and flash unit settings.

Factory setting: **End of Exp.**

- ▶ Select **Flash Settings** in the main menu
- ▶ Select **Flash Sync**
- ▶ Select the desired setting (**Start of Exp.**, **End of Exp.**)
  - The set sync point is shown in the header line.

### Notes

- Do not use sync cables that are longer than 3 m.
- When using the flash with faster shutter speeds, a difference between the two flash firing points will be barely discernible or only noticeable for very fast movements.

## FLASH RANGE

The usable flash range depends on the aperture and sensitivity values set manually or calculated by the camera. It is important to ensure that the subject is within the relevant flash range for sufficient illumination. A permanent setting to the shortest available shutter speed for flash mode (sync time) may often result in unnecessary underexposure of those subject elements that are not lit sufficiently by the flash.

This camera allows the fine tuning of the shutter speed used in flash mode in combination with aperture priority depending on the conditions of the object or your own pictorial composition ideas.

Factory setting: **1/15**

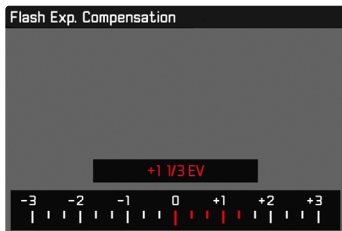
- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit (Flash)**
- ▶ Select the desired value (**Auto**, **1/250**, **1/125**, **1/60**, **1/30**, **1/15**, **1/8**, **1/4**, **1/2**)

## FLASH EXPOSURE COMPENSATION

This function can be used to selectively reduce or enhance flash exposure regardless of ambient light, e.g. to brighten the face of a person in the foreground when taking a picture outdoors in the evening while retaining the same general lighting mood.

Factory setting: 0 EV

- ▶ Select **Flash Settings** in the main menu
- ▶ Select **Flash Exp. Compensation**
  - The submenu displays a scale with a red setting mark. The function is deactivated if the value is set to 0.
- ▶ Set the value on the scale



- The set value is displayed above the scale.
- The available values depend on the global setting **EV Increment** (see p. 103).

## Notes

- The following applies for set compensation values, no matter how they were initially set: They remain effective until they are manually reset to 0, even if the camera is switched off and on again in the meantime.
- Changes to the **EV Increment** setting (see p. 103) lead to the cancellation of a compensation that has been set, i.e. in such cases it is automatically reset to 0.
- A compensation value configured on the camera will be overruled when a relevantly equipped flash unit is attached, e.g. a Leica SF 60 and a compensation value is entered on that flash unit.
- The menu item **Flash Exp. Compensation** can only be used in conjunction with flash units on which the compensation value cannot be set manually (e.g. Leica SF 26).
- A brighter flash illumination with Plus compensation will require a greater flash intensity. Flash exposure compensation will therefore impact on the flash range: A Plus correction will decrease it, a Minus correction will increase it.
- An exposure compensation set on the camera will only affect the measurement of ambient light. If a simultaneous TTL flash exposure metering compensation is desired in flash mode, then it must be additionally set on the flash unit. (Exception: On the Leica SF 26, the compensation value must be set on the camera via menu control.)



## FLASH PHOTOGRAPHY

- ▶ Switch on the flash unit
- ▶ Set the desired guide number control mode (e.g. TTL or GNC = Guide Number Control) on the flash unit
- ▶ Switch the camera on
- ▶ Set the desired exposure mode, shutter speed and/or aperture setting
  - It is imperative to take note of the shortest flash sync speed, as it determines whether a “normal” flash or an HSS flash is fired.
- ▶ Tap the shutter button before each flash exposure to activate exposure metering
  - The flash unit may not fire if this step is missed by pressing the shutter button down completely and skipping these settings.







## REVIEW MODE

There are two completely independent review functions available:

- short-term rendering directly after shooting (**Auto Review**)
- normal review mode, in which the stored images can be viewed and managed for any length of time

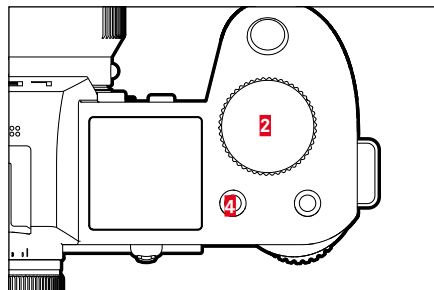
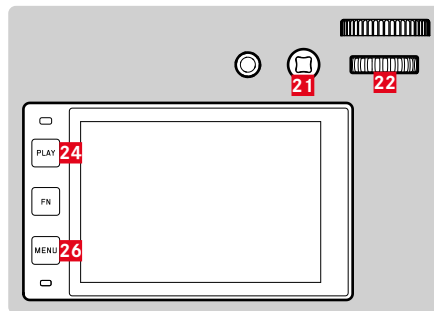
The switchover between shooting and review mode, as well as most other actions can be completed using gesture or key control. Please see p. 55 for more information about the available gestures.

### Notes

- Recorded pictures are not automatically rotated in review mode to utilize the full screen area.
- It may not be possible to render files with this camera that were not recorded with this device.
- In some cases, the screen image may not have the expected quality, or the LCD panel will remain blank and only display the file name.
- You can toggle back from review mode to shooting mode at any time by tapping the shutter button.

## CONTROL ELEMENTS IN REVIEW MODE

### CONTROL ELEMENTS ON THE CAMERA



<b>2</b>	Front dial	<b>22</b>	Thumbwheel
<b>4</b>	Function button	<b>24</b>	<b>PLAY</b> button
<b>20</b>	Function button	<b>25</b>	<b>FN</b> button
<b>21</b>	Joystick	<b>26</b>	<b>MENU</b> button

## FUNCTION BUTTONS IN REVIEW MODE

In review mode, the function buttons either have permanently assigned functions or are without function.

The following function buttons have assigned functions:

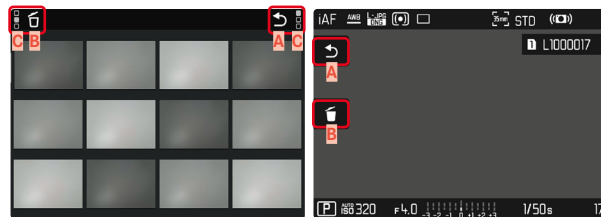
Button	Function
FN button <b>25</b>	Toggle Info Levels
Function button <b>20</b>	EVF-LCD
Function button <b>4</b>	Mark shots (Rate / Unrate)

## CONTROL ELEMENTS ON THE LCD PANEL

On-screen control elements generally function by intuitively by touch. Many can also be selected by pressing one of the three buttons to the left of the LCD panel. A control element in the header is accompanied by an icon denoting the relevant button. A control element on the edge of the screen will be positioned directly next to the relevant button.

Example: The “Go back” icon ↶ can be selected in one of two ways:

- tap on the “Go Back” icon directly
- Press the relevant button (top button = **PLAY** button)



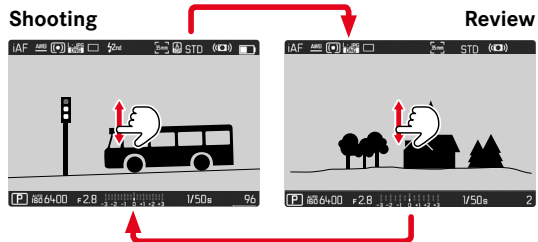
- A** Control element “Go back”
- B** Control element “Delete”
- C** Display of the relevant button



## INITIATE/EXIT REVIEW MODE

### Using touch control

- ▶ Swipe up or down



### Using button control

- ▶ Press the **PLAY** button
  - The last picture taken appears on the screen.
  - The following message appears if the inserted memory card does not contain any image data: **No valid picture to play.**
  - The **PLAY** button function differs, depending on the current camera setting:

Initial situation	After pressing the PLAY button
Full screen display of an image	Shooting mode
Display of an enlarged cropped section/or several thumbnails	Full screen display of the image

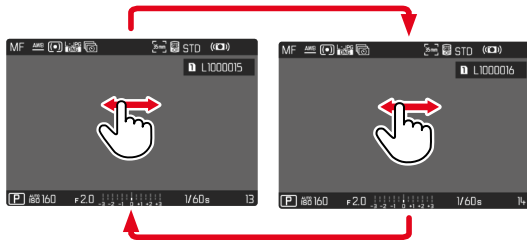
## SELECTING/SCROLLING THROUGH IMAGES

The shots are visually arranged in a horizontal reel. When the end of an image series is reached, the display automatically jumps back to the first image in the series. All shots can therefore be reached by scrolling either right or left.

### SINGLE

#### Using touch control

- ▶ Swipe to the left or right

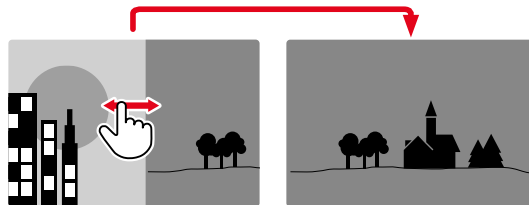


#### Using button control

- ▶ Press the joystick left/right
- or
- ▶ Turn the thumbwheel

## CONTINUOUS

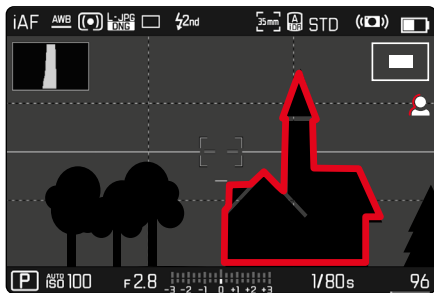
- ▶ Swipe to the left or right and hold the finger on the edge of the screen
  - The subsequent shots will move past continuously.





## INFO DISPLAYS IN REVIEW MODE

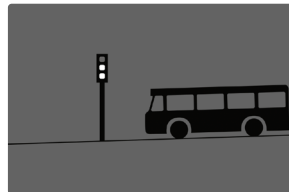
The same info profiles are available in review mode as in shooting mode. The actual info profile currently in use, however, is saved separately. It is therefore possible to use an empty info profile completely without assist function icons in review mode, without having to set them again when switching to shooting mode. See p. 104 for setting options and additional information. The assist functions **Grid** and **Level Gauge** are not available in review mode.



## DISPLAYING ASSIST FUNCTIONS

### Switching between info profiles

- ▶ Press the **FN** button



Empty info profile

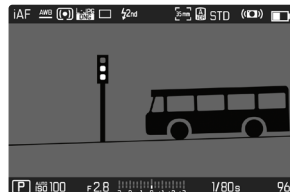
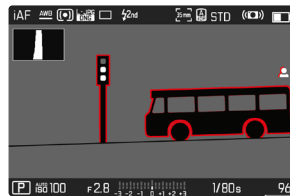


Image data only

### (Info Bars)



Clipping / Zebra + Info Bars

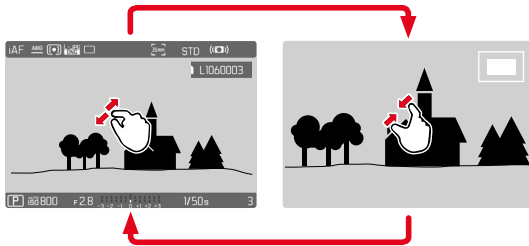


Info Bars, Focus Peaking,  
Histogram

## CROPPED SECTION ZOOM

You can zoom in to any section of an image for closer inspection. Zooming via the front dial is done in four increments; zooming is stepless via touch control.

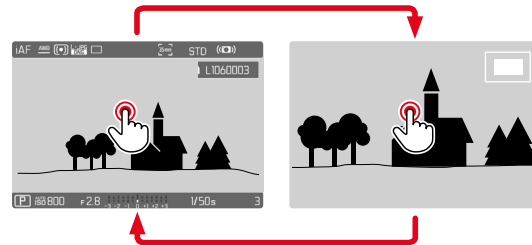
### Using touch control



- ▶ Two-finger pinch/spread
  - The image will be zoomed in/zoomed out at the desired point.



- ▶ Swiping will allow you to move the position of an enlarged cropped section
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.



- ▶ Double tap
  - Toggles between the third zoom increment at the tap position and standard full screen view.





### Using button control

- ▶ Turn the front dial  
(in clockwise direction: increase magnification, anti-clockwise: decrease magnification)
- or
- ▶ Press the joystick/thumbwheel
    - Toggles between the third zoom increment at the tap position and standard full screen view.
  - ▶ Use the joystick to move the position of the cropped section while the image is magnified
    - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.

You can move directly from one picture to the next in magnification mode, which will then also be displayed with the same magnification.

- ▶ Turn the thumbwheel to the left/right

### Notes

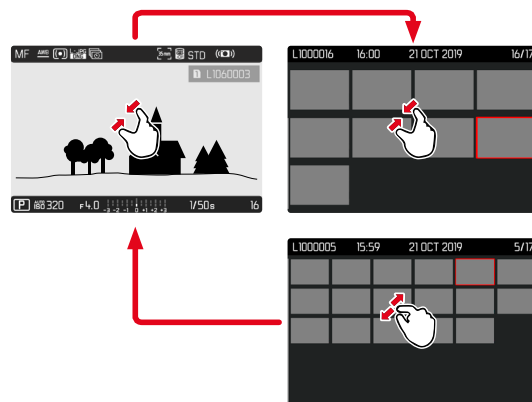
- It may not be possible to enlarge pictures taken with other camera types.
- Video recordings cannot be enlarged.

## DISPLAYING MULTIPLE IMAGES AT ONCE

The camera offers an overview function in which several thumbnail images can be viewed on one screen, which makes it easier to find a specific image. You can choose 12 or 30 images per overview.

### OVERVIEW

#### Using touch control



- ▶ Two-finger pinch
  - The display toggles from 12 to 30 thumbnails.

#### Viewing other images

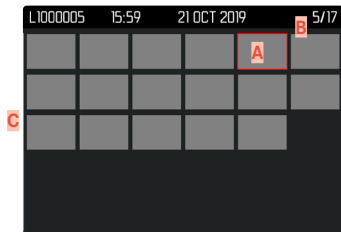
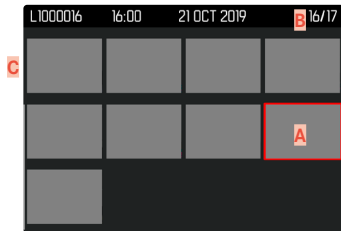
- ▶ Swipe up or down





## Using button control

- ▶ Turn the front dial in anti-clockwise direction
  - 12 thumbnails are shown at the same time. Another turn on the thumbwheel increases the number of displayed thumbnails to 30.



- A** Currently selected image
- B** Number of the currently selected images
- C** Scrollbar

The currently viewed image is framed in red and can be selected for a closer look.

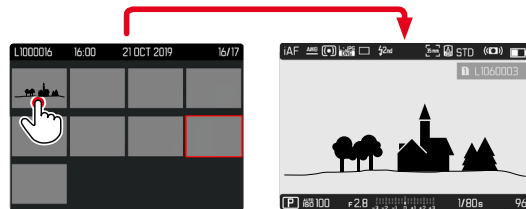
## Navigating between images

- ▶ Press the joystick in the relevant direction
- or
- ▶ Turn the thumbwheel

## Displaying the image in full size

### Using touch control

- ▶ Two-finger spread
- or
- ▶ Tap the desired image



### Using button control

- ▶ Turn the front dial in clockwise direction
- or
- ▶ Press joystick, thumbwheel or **PLAY** button



## TAGGING/RATING OF PHOTOS

Images can be marked as favorites to find them quicker or to simplify the later deletion of multiple images. Tagging can be done in regular view mode or in the overviews.

### Tagging a photos

- ▶ Press the function button **4**

or

- ▶ Press the joystick up
  - The recording is marked with ★. The icon will appear in the header line on the far right when viewing images in full size, and in the top left corner of the thumbnail in overview mode.

### Removing a tag

- ▶ Press the function button **4**

or

- ▶ Press the joystick down
  - The ★ marking disappears.

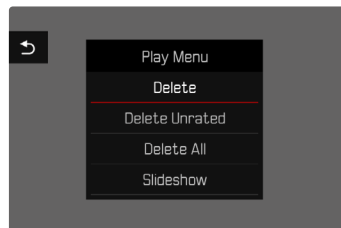
### Note

- In the overview, recordings can only be tagged via the function button.

## DELETING IMAGES

There are several methods available to delete images:

- deleting individual images
- deleting multiple images
- deleting all images without a icon/ranking
- deleting all images




### Important

- Once deleted, shots are no longer retrievable.


## DELETING INDIVIDUAL IMAGES

- ▶ Press the **MENU** button
- ▶ Select **Delete** in the play menu
  - The Delete screen appears.



- ▶ Select the Delete icon   
(tap the icon directly or press the **FN** button)
  - The LED will flash during the delete process. The process may take a few seconds.
  - The next image will be displayed once deletion is complete. The following message appears if no other images are saved on the card: **No valid picture to play.**

### Cancelling a deletion and returning to normal review mode

- ▶ Select the “Go back” icon   
(tap the icon directly or press the **PLAY** button)

### Notes

- The Delete screen can not be called up when in overview mode, because the menu function **Delete** of the play menu is not available in this context.
- The “Scroll” and “Magnify” functions continue to be available when the “Delete” screen is active.

## DELETING MULTIPLE IMAGES

Several images can be marked in a Delete overview with twelve thumbnails and can then be deleted all at once. This overview can be reached in two ways.

- ▶ Turn the front dial in anti-clockwise direction
  - The overview screen appears.
- ▶ Press the **MENU** button
- ▶ Select **Delete Multi** in the play menu
  - The Delete overview appears.

or

- ▶ Press the **MENU** button
- ▶ Select **Delete** in the play menu
  - The Delete screen appears.
- ▶ Turn the front dial in anti-clockwise direction
  - The Delete overview appears.





Any number of images can be selected in this view.

### Selecting images for deletion

- ▶ Select a image
- ▶ Press the joystick/thumbwheel

or

- ▶ Tap the desired image
  - The images selected for deletion are marked with a red Delete icon

### Deleting the selected images

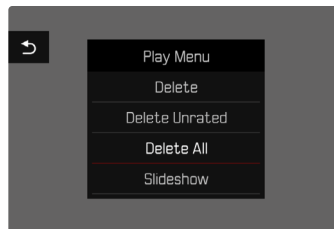
- ▶ Select the Delete icon (tap the icon directly or press the **FN** button)
  - The prompt **Do you want to delete all marked files?** appears.
- ▶ Select **Yes**

### Cancelling a deletion and returning to normal review mode

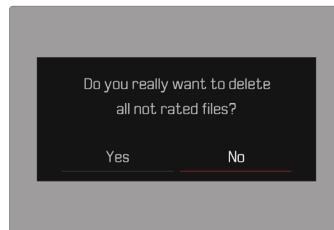
- ▶ Select the “Go back” icon (tap the icon directly or press the **PLAY** button)

## DELETING ALL IMAGES

- ▶ Press the **MENU** button
- ▶ Select **Delete All** in the play menu



- The prompt **Do you want to delete all files?** appears.



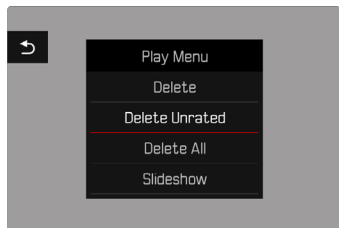
- ▶ Select **Yes**

### Note

- The message **No valid picture to play.** appears after successful deletion. The same picture is displayed again if deletion was unsuccessful. When deleting several or all images, a notification screen may appear for the time needed to process the data.

## DELETING UNRATED IMAGES

- ▶ Press the **MENU** button
- ▶ Select **Delete Unrated** in the play menu



- The prompt **Do you really want to delete all not rated files?** appears.
- ▶ Select **Yes**
- The LED will flash during the deletion process. The process may take a few seconds. The next marked image appears once deletion is complete. The message **No valid picture to play** appears if no other recordings are saved on the card.

## PREVIEW OF LATEST IMAGE

Photo shootings can be displayed automatically directly after they are taken to e.g. check the success of the shots quickly and easily. A duration for the automatic display can be configured.

- ▶ Select **Auto Review** in the main menu
- ▶ Select the desired function or duration in the submenu (**Off**, **1 s**, **3 s**, **5 s**, **Permanent**, **Shutter button pressed**)

**Permanent**: The most recent frame is displayed until automatic review is ended by pressing the **PLAY** button or by tapping the shutter button.

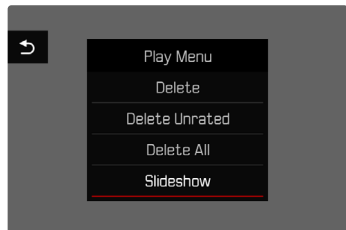
**Shutter button pressed**: The most recent frame is displayed for as long as the shutter button is pressed down.

### Notes

- Various control elements change back to regular review mode to execute their normal functions while automatic review is selected. The camera will remain in review mode until it is exited.
- Marking and deleting can only be done in regular review mode and not during automatic review.
- When pictures were taken with the functions continuous shooting or interval shooting, then the last image in the series will be displayed or – if the save process is still incomplete – the last image in the series saved to the memory card.
- Where display times were configured (**1 s**, **3 s**, **5 s**) automatic review can be ended immediately by pressing the **PLAY** button or tapping the shutter button.

## SLIDE SHOW

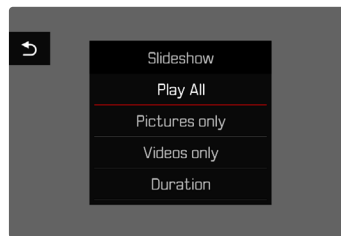
A slide show function is available in Review mode, in which the saved images are shown automatically in series. Choose to see all images (**Play All**), only photos (**Pictures Only**) or only videos (**Videos Only**) should be displayed. For photos, select how long each image should be displayed (**Duration**).



## SETTING THE DURATION

- ▶ Press the **MENU** button
- ▶ Select **Slideshow** in the play menu
- ▶ Select **Duration**
- ▶ Select the desired duration (**1 s**, **2 s**, **3 s**, **5 s**)

## STARTING THE SLIDE SHOW



- ▶ Press the **MENU** button
- ▶ Select **Slideshow** in the play menu
- ▶ Select the desired setting (**Play All**, **Pictures only**, **Videos only**)
  - The slide show will start automatically with the selected images and runs in an endless loop until it is exited.

## ENDING THE SLIDE SHOW

- ▶ Press the **PLAY** button
- or
- ▶ Tap the shutter button
    - The camera switches to the relevant mode.

## Notes

- An intermediate screen may appear while the data is prepared for review.
- The settings in **Duration** remain intact even after the camera is switched off and on again.



## VIDEO SETTINGS

### SENSOR FORMAT

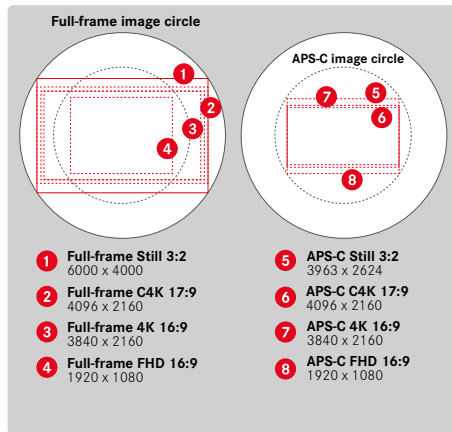
The image data of the entire 35 mm sensor can be used or only a cropped section, which corresponds to the APS-C format. This can be helpful, e.g. when only limited storage capacity remains or a lens developed specifically for APS-C is used.

Factory setting: **35 mm**

▶ Select **Sensor Format** in the main menu

▶ Select the desired setting

(**35 mm**, **APS-C**)



### Note

- The setting switches automatically to APS-C when an APS-C-specific lens is mounted.

## FILE FORMAT

Video can be recorded in the file formats MOV or MP4.

Various combinations of resolution and frame rate can be configured depending on the file format chosen. The settings are done separately. You could therefore select the combination **C4K/29.97 fps** for the MOV format or **FHD/59.94 fps** for MP4. The preset video format settings are then accessed automatically, when one of the two file formats is selected.

### Note

- You can toggle between video file formats via the status screen without having to (re)configure the settings.



## VIDEO FORMAT

The following combinations of resolution and frame rate are available:

Frame rate		Resolution (file format)		
		C4K	4K	FHD
23.98 fps		RAW + MOV	MOV + MP4	MOV + MP4
24 fps		MOV	MOV	
25 fps		RAW + MOV	MOV + MP4	MOV + MP4
29.97 fps		RAW + MOV	MOV + MP4	MOV + MP4
47.95 fps		MOV	MOV	
48 fps		MOV	MOV	
50 fps		RAW + MOV	MOV + MP4	MOV + MP4
59.94 fps		RAW + MOV	MOV + MP4	MOV + MP4
100 fps				MOV
119.88 fps				MOV
Slow Motion	100 fps			MOV + MP4
	120 fps			MOV + MP4
	150 fps			MOV + MP4
	180 fps			MOV + MP4

## AVAILABLE RESOLUTIONS

You can choose resolutions with the associated aspect ratios (depending on the file format of the recording).

Sensor format	File Format	Available resolutions	
35 mm	MOV	C4K	4096x2160
	MOV + MP4	4K	3840x2160
		FHD	1920x1080
APS-C	RAW	C4K	4128x2176
	MOV	C4K	4096x2160
	MOV + MP4	4K	3840x2160
		FHD	1920x1080

## AVAILABLE FRAME RATES

Up to 11 different frame rates between 23.98 fps and 180 fps are available depending on the selected resolution. The frame rates 100 fps to 180 fps allow slow motion shots in varying speeds.



## SETTING THE VIDEO FORMAT

Factory setting: file format MOV, resolution 4K, frame rate 29.97fps

### MOV

- ▶ Select **Video Format / Resolution** in the main menu
- ▶ Select **MOV**
- ▶ Select the desired resolution  
(**C4K**, **4K**, **FHD**, **FHD Slow Motion**)
- ▶ Select the desired frame rate

### MP4

- ▶ Select **Video Format / Resolution** in the main menu
- ▶ Select **MP4**
- ▶ Select the desired resolution  
(**4K**, **FHD**, **FHD Slow Motion**)
- ▶ Select the desired frame rate

### Note

- The list of available resolutions for this camera also contains additional information, e.g. on video compression.

## RAW OUTPUT VIA HDMI

Leica SL2-S supports the RAW format output for recordings using an external device. The video signal will then have a 12 bit color depth. This signal is output via the HDMI connection and can be recorded and processed by an external device (e.g. Atomos Ninja V+).

The following devices are currently supported:

- Video Assist 12G HDR (by Blackmagic)
- Ninja V (by Atomos)
- Ninja V+ (by Atomos)

- ▶ Select **Video Format / Resolution** in the main menu
- ▶ Select **RAW (via HDMI)**
- ▶ Select the desired frame rate

### Notes

- With RAW output via HDMI, not the entire sensor area is read out, but an area corresponding to the size of the Super 35 sensors of professional cinema cameras.
- The sensor format switches automatically to **APS-C** for recordings in RAW format.
- Please note the operating instructions of the external device.



## VIDEO STYLE

### IMAGE PROPERTIES

The image properties of video recordings can be changes slightly using several parameters. These are summarized in pre-configured **Video Style** profiles.

### CONTRAST

The contrast setting, i.e. the difference between light and dark image sections, determines whether an image comes across as “flat” or “brilliant”. Increasing or decreasing this difference impacts on contrast, meaning that some image sections are rendered brighter or darker.

### SHARPNESS

The impression of sharpness in a picture is largely determined by edge sharpness, i.e. by how slight the transition area between light and dark is at edges in the shot. Expanding or reducing these areas will therefore change the impression of sharpness.

### COLOR SATURATION

The saturation factor in color images determines, whether colors in the shots appear “pale” and pastel-like or “bright” and colorful. While lighting conditions and weather (e.g. foggy/clear) are a given in terms of shooting conditions, their rendering can be influenced.

## HIGHLIGHT/SHADOW

Depending on the exposure selected and the dynamic scope of the object, some details in brighter or darker areas may no longer be clearly visible. The parameters **Highlight** and **Shadow** allow differentiated control over very brightly or less brightly lit areas. Where, for example, part of the object is in shadow, a higher setting for **Shadow** can help brighten these areas to make details more visible. Conversely, existing shadows or particularly bright areas might be additionally emphasized for reasons of image composition. Positive values will brighten the targeted areas, while negative values will darken them.

## VIDEO PROFILES

### COLOR PROFILE

3 pre-configured color profiles are available:

- STD **Standard**
- VIV **Vivid**
- NAT **Natural**

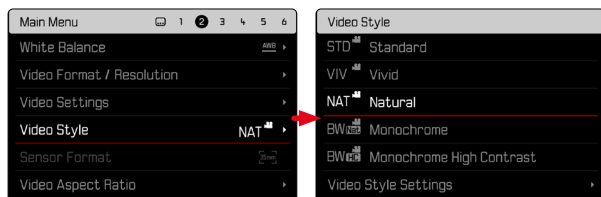
- ▶ Select **Video Style** in the main menu
- ▶ Select a profile

### MONOCHROME PROFILE

There are two additional profiles available for monochrome video recordings:

- BW **Monochrome**
- BW **Monochrome High Contrast**

- ▶ Select **Video Style** in the main menu
- ▶ Select a profile



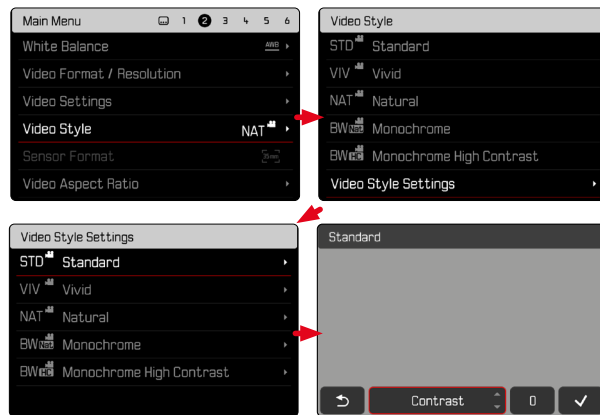
### Note

- The **Video Style** function is unavailable if any other setting but **Off** is selected for **Video Gamma**.

## CUSTOMIZING VIDEO PROFILES

These parameters can be adjusted for all available profiles (**Saturation** only for color profiles). See p. 68 for details on menu operation.

- ▶ Select **Video Style** in the main menu
- ▶ Select **Video Style Settings**
- ▶ Select a profile
- ▶ Select **Contrast/Highlight/Shadow/Sharpness/Saturation**
- ▶ Select the desired level (-2, -1, 0, +1, +2)



## AUDIO SETTINGS


### MICROPHONE

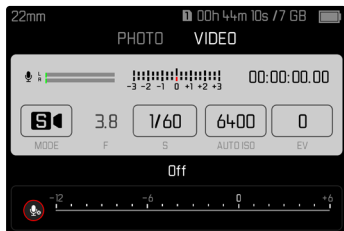
The sensitivity of the integrated microphone can be set.

Factory setting: **0 dB**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Microphone Gain**
- ▶ Select the desired level  
(**Off**, **+6 dB**, **+5 dB**, **+4 dB**, **+3 dB**, **+2 dB**, **+1 dB**, **0 dB**, **-1 dB**, **-2 dB**, **-3 dB**, **-4 dB**, **-5 dB**, **-6 dB**, **-7 dB**, **-8 dB**, **-9 dB**, **-10 dB**, **-11 dB**, **-12 dB**)

### Notes

- The Autofocus function and manual focusing adjustments generate noise that may be picked up in the recording.
- There will be no audio recorded if this setting is **Off**. As notification, the icon for the recording level changes as shown here 



### WIND NOISE REDUCTION

Wind noise reduction can be adjusted individually for the internal and the external microphone.

### INTERNAL MICROPHONE

Factory setting: **Low**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Wind Noise Reduction**
- ▶ Select **Internal Microphone**
- ▶ Select the desired setting  
(**High**, **Low**, **Off**)

### EXTERNAL MICROPHONE

Factory setting: **Off**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Wind Noise Reduction**
- ▶ Select **External Microphone**
- ▶ Select the desired setting  
(**High**, **Low**, **Off**)



## TIMECODE

The timecode is a data record that is generated and recorded alongside the image and audio data. It ensures the correct time assignment of frame and audio signals after cutting or after later separate processing. Timecode mode and start time can be selected.

### TIMECODE MODE

Time information is written to the recorded video file if the timecode setting is activated.

Factory setting: **Off**

Off	Timekeeping begins at 00:00:00.00 for every recording.
Free Run	The timer continues running regardless of whether the camera is currently recording video.
Rec Run	The timer only runs while a video is being recorded. The timer will stop when recording ends and will continue when the next recording starts.

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Timecode**
- ▶ Select **Mode**
- ▶ Select the desired setting  
(**Off**, **Free Run**, **Rec Run**)

### START TIME

The start time can be reset manually or can be set to a specific value if multiple cameras are used for recording. Alternatively, the current time set in the camera can be specified as the timecode.

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Timecode**
- ▶ Select **Start Time**
- ▶ Select the desired setting  
(**Reset Timecode**, **Manual**, **Camera Time**)

The desired start time can be set in the format hour:minute:second:-frame if **Manual** is selected.



## VIDEO GAMMA

Video gamma can be set to HLG and L-Log or can be deactivated altogether.

Off	Optimization for playback compatible with all screen/TV devices in compliance with the BT.709 standard.
HLG	Optimization for HDR-capable UHD-TV devices.
L-Log	Optimization for professional reworking, e.g. color grading.

Factory setting: Off

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select the desired setting  
(Off, HLG, L-Log)

### Notes

- **Video Gamma** is not available under the following conditions:
  - Recordings in MP4 format
  - Recordings in 8 bit
  - Recordings in slow motion
- The following functions are unavailable when **Video Gamma** is used:
  - **iDR**
  - **Video Style**

## HLG SETTINGS

Sharpness and saturation can be set. The factory setting is a median value 0 in both cases.

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select **Settings**
- ▶ Select **HLG**
- ▶ Select **Sharpness** or **Saturation**
- ▶ Select the desired setting  
(-2, -1, 0, +1, +2)

## L-LOG SETTINGS

The sharpness for L-Log can be adjusted. Additionally, various LUT profiles can be applied as preview when using L-Log. Saved recordings remain unaffected.

## SHARPNESS

Factory setting: -2

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select **Settings**
- ▶ Select **L-Log**
- ▶ Select **Sharpness**
- ▶ Select the desired setting  
(-2, -1, 0, +1, +2)



## SETUP/MANAGEMENT OF LUT PROFILES

You can import custom LUT profiles to the camera to optimally meet your LUT preview expectations.

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select **Settings**
- ▶ Select **L-Log**
- ▶ Select **Custom LUT**
  - A list of six memory slots is displayed. Three are reserved for use with HDMI output, and three for internal camera use (LCD panel/EVF).
  - Filled memory slots will show the name of the saved LUT profile. Free memory slots display the word **Unused**.

## EXAMPLE

In the following, the assignment shown below will be used for all subsequent figures. Two profile slots for internal camera display (LCD panel/EVF) are taken, all others are unused.

Custom LUT	
LUT 1 (EVF-LCD)	Sepia 12 ▾
LUT 1 (HDMI)	Unused ▾
LUT 2 (EVF-LCD)	Steel ▾
LUT 2 (HDMI)	Unused ▾
LUT 3 (EVF-LCD)	Unused ▾
LUT 3 (HDMI)	Unused ▾





## Importing a custom LUT profile

- ▶ Download or export an LUT profile as a CUBE file
- ▶ Give the file a meaningful name (file name max. 8 characters, file ending “.cub”)
  - This file name (without the ending) will appear as a profile name in the camera after import. A later file name change on the camera will not be possible.
- ▶ Save the download to the memory card
  - Store the file in the main directory of the memory card (not in a sub-directory).
- ▶ Insert the memory card into the camera
- ▶ Select an unused memory slot
  - You will have to delete an existing profile first if there is no unused memory slot available.
  - The “Import” dialog appears. It displays the files found on the memory card.



- The message **Import Failed** will appear if the camera does not find a compatible file.
- ▶ Select the profile to import
- ▶ Select **Yes**

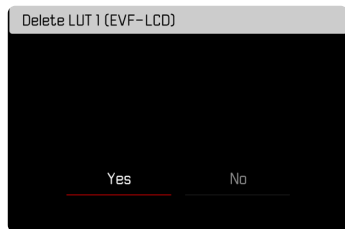
## Notes

- You can only import LUT profiles with the file ending “.cub”.
- Files with the ending “.cube” will not be recognized. These can, however, simply be renamed before saving them to the SD card.
- File names must be max. 8 characters (incl. spaces) long.
- Incompatible files will not be recognized.
- A maximum of six profiles saved to the memory card will be displayed. The profiles found on the card will be displayed chronologically in ascending order: the most recently saved profile will appear at the top.
- In rare cases, a particular combination of memory card and computer may result in a search returning only three profile files.
- Where two memory cards are in use, and both contain compatible files, only the files on SD1 will be considered.



## Freeing a memory slot

- ▶ Select a profile
  - The “Delete” dialog appears.



- ▶ Select **Yes**

### Notes

- The pre-configured profiles **Natural** and **Classic** cannot be deleted.
- A profile that is currently in use cannot be deleted.

## USING LUT PROFILES

### CHANGING THE OUTPUT CHANNEL

The user can choose to apply the LUT profile for output via HDMI or in the camera (LCD panel/EVF).

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select **Settings**
- ▶ Select **L-Log**
- ▶ Select **Output**
- ▶ Select the desired setting (EVF-LCD, HDMI)

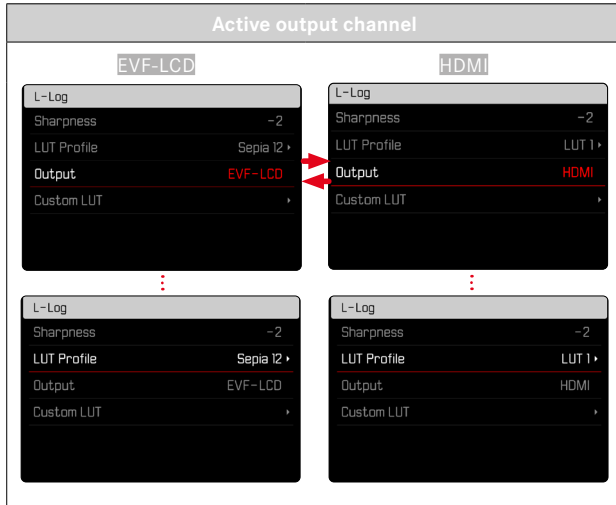
### Note

- The menu item **Output** is unavailable if the setting **Off** is selected for **LUT Profile**.





When toggling between the two output channels, the setting for the selected memory slot will remain unchanged. Since it is possible that different profiles are saved on the same slot depending on the output channel, it is possible that a different profile or an unused memory slot is selected. The name of the active profile will change accordingly next to the menu item **LUT Profile**. This does not apply for the pre-configured profiles, which exist on the same memory slot for both output channels.



## SELECTING THE LUT PROFILE

In addition to the two pre-configured LUT profiles, three more memory slots are available for custom LUT profiles.

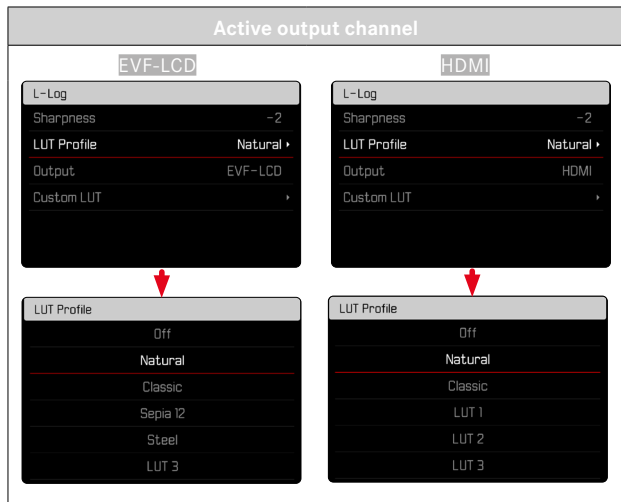
- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Gamma**
- ▶ Select **Settings**
- ▶ Select **L-Log**
- ▶ Select **LUT Profile**
  - The list of profiles available for the active output channel appears.
- ▶ Select the desired setting  
(**Off**, **Natural**, **Classic**, **LUT 1**, **LUT 2**, **LUT 3**)

### Note

- Unused memory slots appear in the list as **LUT 1**, **LUT 2**, and **LUT 3**. A memory slot filled with a custom LUT profile will display its name instead.



The list of selectable LUT profiles depends on the currently selected output channel (camera/HDMI). The channel is displayed next to the menu item **Output**. When the channel is set to **HDMI**, the selection list will display the profiles available for HDMI output. The setting **EVF-LCD** will therefore show the profiles available for camera display.



## AUTOMATIC OPTIMIZATION

### VIDEO STABILIZATION

With video recording - in addition to optical stabilization by means of appropriately equipped lenses - a independent digital stabilization function is available that can be used with any lens. This function is particularly useful in conjunction with lenses that do not feature an OIS function.

Factory setting: **On**

- ▶ Select **Image Stabilization** in the main menu
- ▶ Select **On/Off**

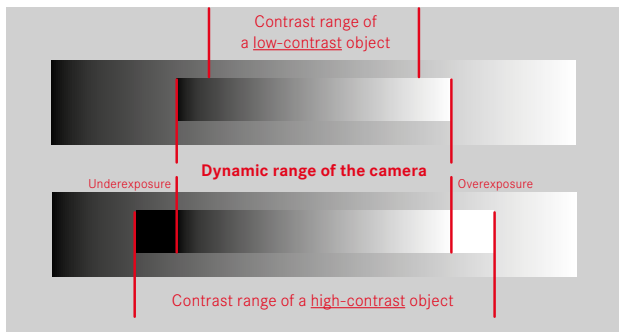
#### Note

- The function **Panning Mode** is permanently set to **Normal** in video mode. Camera shake in all directions (horizontal, vertical, rotational) will be corrected automatically.

## DARK AREA OPTIMIZATION (IDR)

### DYNAMIC RANGE

The contrast range of an object comprises all levels of brightness from the brightest to the darkest point in the image. All levels of brightness can be captured by the sensor, provided the contrast range of the object is lower than the dynamic range of the camera. In case of significant differences of brightness in the object (e.g. shootings of interior spaces with bright windows in the background, shootings with subject elements in shadow or directly lit by the sun, landscapes with dark areas and a very bright sky), the camera with its limited dynamic range will not be able to map the entire contrast range of the object. Information in 'edge areas' will be lost (under and overexposure).



### IDR FUNCTION

The **IDR** (Intelligent Dynamic Range) function allows an optimization of the darker areas. Object details become much clearer.



You can specify beforehand if and to what extent you want to optimize darker areas (**High**, **Standard**, **Low**, **Off**). In the **Auto** setting, the camera will automatically select the right setting depending on the contrast range of the object.

In addition to that setting, the effect also depends on the exposure settings. The function will have the strongest effect in combination with low ISO values and fast shutter speeds. The effect is less pronounced with higher ISO values and/or slower shutter speeds.

Factory setting: **Auto**

- ▶ Select **IDR** in the main menu
- ▶ Select the desired setting (**Auto**, **High**, **Standard**, **Low**, **Off**)

### Note

- The optimization of darker areas will slightly reduce differentiation in very bright areas.



## DATA MANAGEMENT

### SEGMENTED RECORDING

Videos recorded in MOV format can be automatically segmented into individual one-minute files and saved. This method protects recordings against technical errors during the write process, in case the recording is interrupted. All previously saved one-minute segments will remain intact.

Factory setting: Off

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Segmented Video**
- ▶ Select **On/Off**

#### Notes

- This function is not available for the **MP4** video format setting.
- The individual recordings will not be played back automatically in sequence.
- Essential for segmentation is the playback time of the finished recording. Slow motion recordings will be segmented in a way that the finished recordings will have a playback time of about one minute.

### FORMATTING A MEMORY CARD

Memory cards that have already been in use with this camera will usually not require formatting. An unformatted memory card that is inserted into the camera for the first time must be formatted. We recommend formatting memory cards from time to time, because residual data traces (data pertaining to individual shots) may reduce the card's storage capacity. The two memory cards will be formatted separately.

- ▶ Select **Format Card** in the main menu
- ▶ Select **Format SD Card 1** or **Format SD Card 2**
- ▶ Confirm the selection
  - The lower status LED will flash during that process.



## Notes

- Never switch off the camera while data transfer is in progress.
- All data stored on the memory card will be lost during formatting. Formatting will not be prevented by the deletion protection set for individual shots.
- All images should therefore be regularly transferred to a safe mass storage medium, e.g. the hard disk of a computer.
- A simple formatting process will initially not irretrievably destroy existing data on the card. Only the directory will be deleted, which means the data will no longer be directly accessible. Data access can be restored with appropriate software. Only data that is overwritten when new data is saved will actually be irretrievable.
- A memory card should be formatted again in the camera if it was formatted in another device, e.g. a computer.
- Contact your retailer or Leica Customer Care for assistance if the memory card cannot be formatted/overwritten (see p. 298).

## DATA STRUCTURE

### FOLDER STRUCTURE

The files (= shots) on the memory cards are saved in automatically generated folders. The first three characters signify the folder number (numerals), the last five the folder name (letters). The first folder is assigned the name “100LEICA”, the second “101LEICA”. A folder will always be created with the next available number; you can have max. 999 folders.

### FILE STRUCTURE

The file names in these folders consist of eleven characters. In the factory settings, the first file is named “L1000001.XXX”, the second “L1000002.XXX”, etc. The first letter can be selected, the “L” from the factory settings denotes the camera brand. The first three characters signify the folder number (numerals). The next four digits denote the sequential file number. Once file number 1000 is reached, then a new folder will be automatically created, in which the file numbering begins at 0001 again. The last three places after the dot denote the file format (MOV or MP4).



## Notes

- When using memory cards that were not formatted with this camera, the file numbering will begin with 0001 again. Should the memory card already contain a file with a higher number, then numbering will be continued from that number.
- A relevant message will be displayed on the LCD panel once folder number 999 and file number 1000 are reached, and all numbering must be reset.
- Format the memory card and reset the frame number right after to reset the folder number to 100.

## EDIT FILE NAMES

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Edit File Name**
  - A keyboard submenu is displayed.
  - The input line contains the factory setting “L” as the first letter of the file name. Only this letter can be changed.
- ▶ Enter a letter of your choice (see p. 65)
- ▶ Confirm

## Notes

- The change to a file name applies to all subsequent shots or until a new change is made. The sequential number will not be affected; but it will be reset when a new folder is created.
- During a reset to factory settings, the first letter will always be reset to “L”.
- Lower case letters are unavailable.





## CREATING A NEW FOLDER

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Reset Image Numbering**
  - A relevant prompt is displayed.
- ▶ Confirm the creation of a new folder (**Yes**) or cancel the new folder (**No**)

### Note

- The name part (first letter) of a new folder created this way remains unchanged. The file numbers in that folder will start again at 0001.

## ADDING COPYRIGHT INFORMATION

This camera allows you to enter letters and other characters as a copyright mark for your video files.

You can enter up to 20 characters of information under 2 headings per shot.

- ▶ Select **Camera Information** in the main menu
- ▶ Select **Copyright Information** in the submenu
- ▶ Activate the **Copyright** function (**On**)
- ▶ Select **Information/Artist** in the submenu
  - A keyboard submenu is displayed.
- ▶ Enter the desired information (see p. 65)
- ▶ Confirm

## DATA TRANSFER

Data can be conveniently transferred to mobile devices via Leica FOTOS. Alternatively, a card reader or USB cable can be used for the transfer.

### ABOUT LEICA FOTOS

- ▶ See chapter “Leica FOTOS” (p. 264)

### VIA USB CABLE

The camera supports multiple data transfer options (PTP and mass storage mode). A transfer mode can be permanently selected or chosen every time a connection is established.

Factory setting: **PTP**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **USB-Mode**
- ▶ Select the desired setting  
(**Mass Storage**, **PTP**, **Select on connection**)

### Notes

- We recommend using a card reader for the transfer of large files.
- The USB connection must not be interrupted while data is being transferred, as the computer or the camera could otherwise “crash” and irreparable damage could occur on the memory card.
- The camera must not be turned off or automatically shut itself down due to a lack of battery power while data is being transferred, as this can cause the computer to crash. For the same reason, the battery must never be removed from the camera while the connection is active.



## PRACTICAL DEFAULT SETTINGS

### TOUCH AF

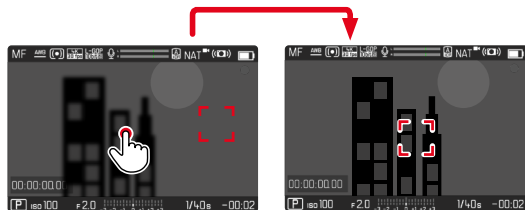
Touch AF allows a direct placement of the AF metering field.

Factory setting: **On**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Touch AF**
- ▶ Select **On/Off**

#### Positioning the AF Metering Field

- ▶ Tap the LCD panel in the desired position



#### Moving the metering field back to the center of the screen

- ▶ Double-tap the LCD panel

#### Notes

- This function is available in conjunction with the following AF metering methods: **Spot**, **Field**, **Zone**, **Tracking** and **Eye//Face/Body Detection**.
- With **Spot**, **Field**, **Zone** or **Eye//Face/Body Detection** metering selected, the camera will immediately focus again automatically. If the metering method **Tracking** is selected, the metering field will remain at the selected position and autofocus commences when the shutter button is tapped.

### TOUCH AF IN EVF MODE

Touch AF is deactivated by default when EVF is in use to prevent any inadvertent altering of the AF metering field. Touch AF can, however, also be used in EVF mode.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Touch AF in EVF**
- ▶ Select **On/Off**



## PERSONALIZED LENS SETTINGS

The total angle of rotation of the lens used for focusing can be individually adjusted. The setting selected indicates the angle of rotation required to change the focus setting from infinity to the nearest possible distance. Example: for a setting to **90°**, the entire focus range will be run through when the focus ring is turned by one quarter. A full turn of the focus ring will be needed for a setting to **360°**. Smaller values facilitate a faster, larger values a more precise adjustment. A setting to **Maximum** offers the highest precision.

Unlike the permanent settings, a setting to **Standard MF** will result in a non-linear dependency of rotation angle and focus setting. The extent of the change depends dynamically on the speed of rotation. With slow rotation, the same angle of rotation (e.g. 45°) causes a smaller change than with fast rotation.

Factory setting: **Standard MF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **MF Setup**
- ▶ Select the desired setting  
(**Standard MF**, **90°**, **120°**, **150°**, **180°**, **210°**, **240°**, **270°**, **300°**, **330°**, **360°**, **Maximum**)

### Note

- The settings **Standard MF** and **Maximum** are highly lens-dependent. **Maximum** may, for example, mean a rotation angle of 360° or 720°.

## EV INCREMENT

You can choose between 1/2EV or 1/3EV graduations. This will allow you to choose between stronger or more subtle effects for your relevant settings.

This setting doesn't just apply for exposure compensation settings. It also specifies the sensitivity of the setting wheels in standard shooting mode, i.e. the increment width with which the shutter speeds and the aperture will be set. A setting to **1/2** will change the shutter speeds and aperture values that much faster each time the setting wheel is moved one click further and the correct setting is achieved quicker. A setting to **1/3** facilitates a more precise setting.

Factory setting: **1/3**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **EV Increment**
- ▶ Select the desired setting  
(**1/2**, **1/3**)

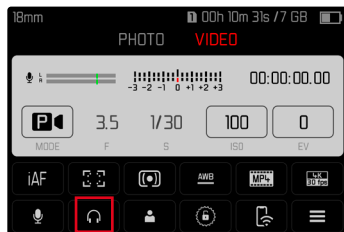


## AUDIO OUTPUT

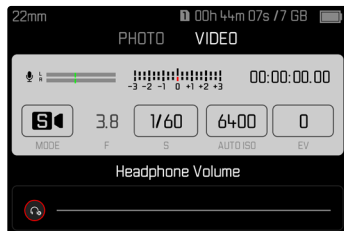
### SETTING THE OUTPUT LEVEL

The volume level can be set for connected headphones.

- ▶ Accessing the status screen
- ▶ Select the headphone icon



- ▶ Select the desired setting
  - There will be no audio output if the setting is



### HDMI OUTPUT WITH/WITHOUT SOUND

HDMI output is available with or without audio.

Factory setting: **With Audio**

- ▶ Select **HDMI Output** in the main menu
- ▶ Select the desired setting (**With Audio**, **Without Audio**)

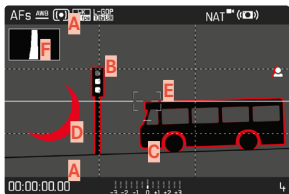
#### Note

- An output with audio may result in some negligible delays. We recommend the setting **Without Audio** to avoid this effect (if, for example HDMI Live View is required for a recording with an external recorder).

## AUXILIARY DISPLAYS

The Leica SL2-S has 4 independent info profiles, which contain differing combinations of the available auxiliary displays. The following functions are available:

- Info Bars (see p. 199)
- Grid (only shooting mode, see p. 199)
- Focus Peaking (see p. 200)
- Zebra (see p. 199)
- Level Gauge (only shooting mode, see p. 201)
- Histogram (see p. 202)



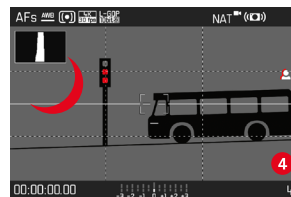
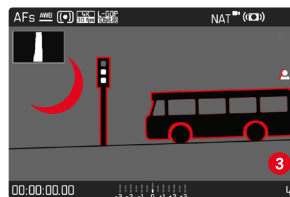
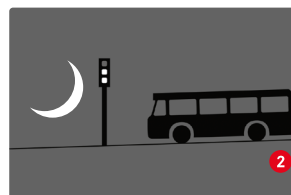
- A** Info Bars (= header and footer line)
- B** Grid
- C** Focus peaking
- D** Zebra
- E** Level gauge
- F** Histogram

## INFO PROFILES

Up to 4 independent profiles can be used. The desired function can be selected and adjusted individually for each profile. During operation, the switch between info profiles is done via direct access (see p. 71). In factory settings, that will be the **FN** button. It allows quick switches between various views.

The following profiles are predefined in the factory settings:

Profile	Factory settings
1	Only info bars (header and footer lines)
2	Full screen view (all auxiliary displays <b>Off</b> )
3	Info Bars, Clipping / Zebra, Focus Peaking, Histogram
4	Info Bars, Clipping / Zebra, Grid, Level Gauge



## CHANGING THE INFO PROFILES

- ▶ Press the function button with the **Toggle Info Levels** assignment
  - In factory settings, that will be the **FN** button.

### Note

- The same info profiles are available in playback mode as in shooting mode. The actual info profile currently in use, however, is saved separately.

## DEACTIVATING INDIVIDUAL INFO PROFILES

You can limit the number of info profiles by activating/deactivating individual profiles. At least one profile must always be active, but that can be an “empty” profile.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select a profile
- ▶ Select **On/Off**

## CUSTOMIZING THE INFO PROFILES

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select **Setting**
- ▶ Select a profile
- ▶ Select the desired function
- ▶ Select the desired setting

Function	Available settings
Info Bars	On, Off
Grid	3 x 3, 6 x 4, Off
Clipping / Zebra	Off, Upper limit (value between 200 and 255)
Focus Peaking	On, Off Color (Red, Blue, Green, White) & sensitivity (settings apply to <u>all</u> info profiles)
Level Gauge	On, Off
Histogram	On, Off

### Note

- It is advisable to reserve one info profile as “empty”, in which all functions are set to **Off**. It allows you to temporarily hide all displays. In effect, you get an unobstructed view of the full screen image.

## SHOW AVAILABLE

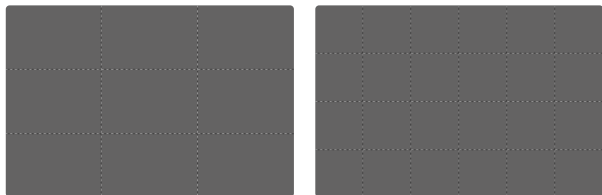
### INFO BARS

The header and footer lines show the currently active settings and exposure values. See chapter “Displays” for a full list of the various displays (see p. 28).



### GRID

The grids divide the image frame into multiple fields. They facilitate pictorial composition and an exact camera orientation. The grid line distribution can be adjusted to fit the object.



You can choose one of two grid displays. They divide the image field into 3x3 or 6x4 fields.

## ZEBRA

The Zebra display marks very bright image areas. This function is a very easy and exact tool for checking the correct exposure setting. Overexposed areas will appear white with moving black stripes.



### SETTING THE LIMIT VALUE

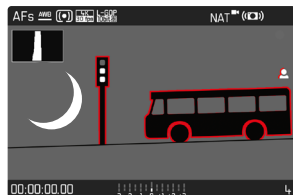
You can set a threshold value for these displays, i.e. define a value at what degree of overexposure they will appear, so that you can adjust these displays to specific conditions or in line with your own composition ideas.


- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Capture Assistants**
- ▶ Select **Setting**
- ▶ Select a profile
- ▶ Select **Clipping / Zebra**
- ▶ Select **Upper limit**
- ▶ Select the desired value (**200** to **255**)



## FOCUS PEAKING

This assist function highlights the edges of in focus subject elements in color.



When Focus Peaking is activated,  will appear to the right of the frame with a display of the color used.

## HIGHLIGHT COLOR

The color can be user-specified. This setting will apply for all info profiles.

Factory setting: **Red**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Focus Peaking**
- ▶ Select the desired setting  
(**Red**, **Green**, **Blue**, **White**)

## SENSITIVITY

The sensitivity can be additionally adjusted. This setting will apply for all info profiles.

Factory setting: **High**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Peaking Sensitivity**
- ▶ Select the desired setting  
(**Low**, **High**)

## Note

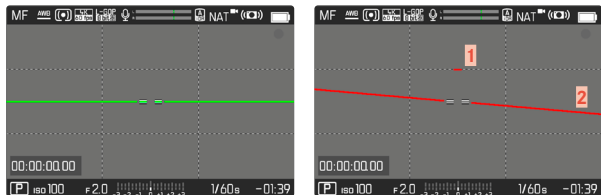
- Focus peaking is based on subject contrast, i.e. differences between light and dark. As a result, high contrast subject elements could be marked, even if they are not completely in focus.



## LEVEL GAUGE

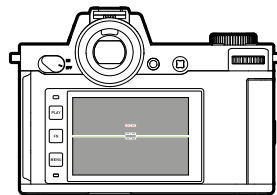
The integrated sensors of the camera show its orientation. These indicators ensure exact camera orientation along the longitudinal and transverse axes of critical objects, e.g. architecture.

Deviations in relation to the longitudinal axis (i.e. when the camera is tilted up or down in the direction of view) are indicated by a short line in the center of the image (1). Deviations in relation to the transverse axis (when the camera is tilted to the left or right) are indicated by two long lines to the left and right of the image center (2).

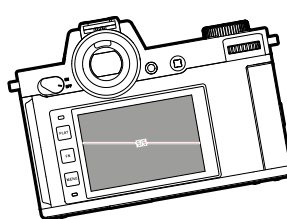


### Note

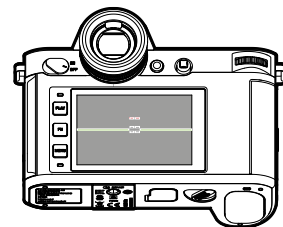
- In vertical format recordings, the camera will switch the aspect of the level gauge autonomously.



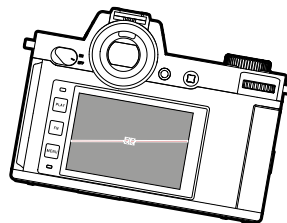
Correct alignment



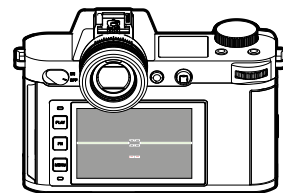
Tilted laterally to the left



Tilted downward in the direction of view



Tilted laterally to the right



Tilted upward in the direction of view

## HISTOGRAM

Histogram represents the brightness distribution in the image. The horizontal axis shows the graduated values from black (left) through gray to white (right). The vertical axis corresponds to the number of pixels at each brightness level.

This type of rendering allows an additional quick and easy assessment of the exposure setting.



## Notes

- The histogram is always based on the brightness displayed; depending on the settings used, it may not represent the final exposure.
- In shooting mode, the histogram should be regarded as a “trend indicator”.
- The histogram during rendering may differ slightly from the one during exposure.
- The Histogram always refers to the currently displayed cropped section of the image.

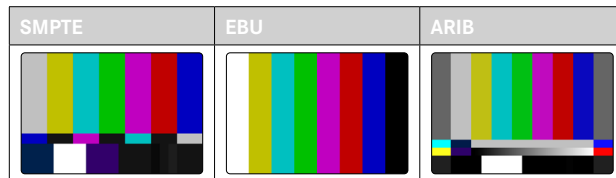
## VIDEO ASSIST FUNCTIONS

### REFERENCE VALUES

A color bar can be displayed and also recorded for calibration purposes. A test sound with a frequency of 1 kHz will (optionally, three volume settings) be emitted.

### COLOR BAR

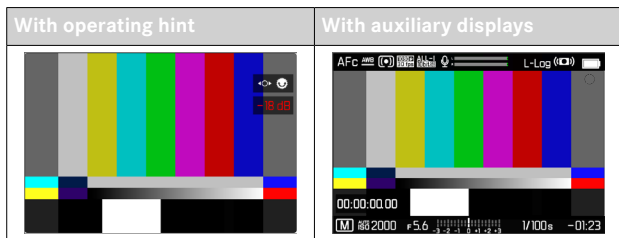
A choice of three color bars (SMPTE, EBU, ARIB) is available.



- ▶ Select **Video Settings** in the main menu
- ▶ Select **Color Bar**
- ▶ Select the desired setting (**Off**, **SMPTE**, **EBU**, **ARIB**)

## OPERATING HINT/AUXILIARY DISPLAYS

Regardless of the current setting of Info Profile, the test image always appears completely free at first. An operating hint is displayed in the top right corner. The info displays can be accessed at any time.



### Displaying information and auxiliary displays

- ▶ Press the function button with the **Toggle Info Levels** assignment
  - In factory settings, that will be the **FN** button.
  - The operating hint is hidden and the most recently active Info Profile is displayed.
  - The following auxiliary displays will not be displayed while the color bar is visible: Focus Peaking, Histogram, Level Gauge, Clipping/Zebra.

### Ending the display of the color bar

- ▶ Press the joystick/thumbwheel
  - The color bar and test sound end.

## TEST SOUND

A test sound with a frequency of 1 kHz will be emitted whenever the color bar is accessed. Der operating hint at the top right of the image shows the current volume. Available setting options: **OFF**, **20 dB**, **18 dB**, **12 dB**. The selected setting will remain for all subsequent accesses.

Factory setting: **-18 dB**

### Setting the volume

- ▶ Press the joystick left/right
- or
- ▶ Turn the thumbwheel to the left/right

### Notes

- The operating hint will be hidden after ten seconds have elapsed without any change to the volume setting and will reappear, when the next change is made.
- During HDMI output, the test sound will only be output on the connected device and not on the camera.
- During HDMI output, the test sound will be output on the connected device even if the menu item **HDMI Output** is set to **Without Audio**.
- During HDMI output, the operating hint will only be displayed in Live View mode of the camera, and not on the external device.

## APPLICATION

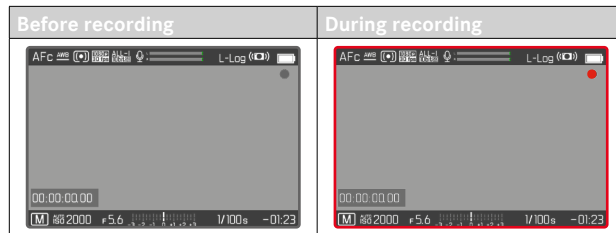
For HDMI output, the reference values are used for the configuration of the external device. The reference values can be irrespectively recorded at the start of a video for later use in post-production.

- ▶ Select the desired color bar
- ▶ Set the volume or mute the test sound
- ▶ Display Info Displays as needed
- ▶ Press the shutter button
  - Start the recording. The test sound is no longer output via the speakers, but will still be recorded.
- ▶ Press the joystick/thumbwheel
  - The color bar and test sound end.
  - Recording continues.

## REC FRAME

A flashing red dot signifies a running video recording. The option REC Frame offers an even better visualization of the process. With the option set to **On**, the entire screen content will be framed. This frame appears in bright red during a running recording and will otherwise be gray.

Factory setting: **On**

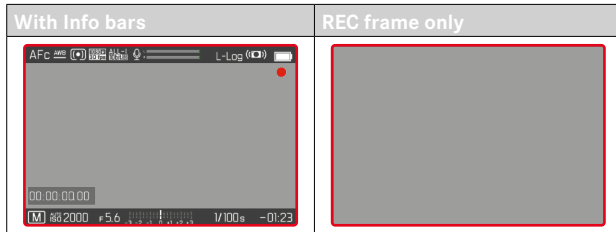


- ▶ Select **Video Settings** in the main menu
- ▶ Select **REC Frame**
- ▶ Select **On/Off**



### Quick option for hiding/displaying the REC Frame

The red dot is part of the info bars and is displayed or hidden alongside them (via the Info profiles). The recording status will still be displayed via the REC frame, without impeding the view of the image content. The REC frame can also be displayed or hidden while recording.



- ▶ Assigning the **REC Frame** setting to a function button
- ▶ Press the function button
  - Displays/hides the REC Frame.

### WAVEFORM MONITOR (WFM)

The Waveform Monitor (WFM) allows a quick and safe assessment of the luminance and color distribution within the current scene. Image faults become more easily apparent, which might otherwise be missed while recording with a smaller screen.

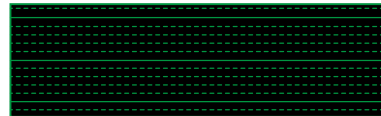
Factory setting: **Off**

- ▶ Select **Waveform Monitor** in the main menu
- ▶ Select **On/Off**



The Waveform Monitor displays the luminance distribution for the entire visible image as a percentage (IRE). A value of 0% corresponds to a luminance value of 16 (in 8-bit encoding), while a value of 100% corresponds to a luminance value of 235 (in 8-bit encoding).

The visualization displays solid lines at 0%, 50%, and 100%. The dotted lines below them represent the values 109% and -4%.





## Notes

- Waveform Monitor and Histogram cannot be displayed at the same time.
- The Waveform Monitor will not be displayed on the external device during HDMI output.
- Der Waveform Monitor is available only in shooting mode, not in playback mode.
- The exposure compensation and ISO values (ISO only when accessed directly) can be adjusted using a menu bar. The screen image remains visible and shows the immediate effect of the selected setting. Should the Waveform Monitor be active, then it will remain visible in these cases, and will also display the effects of the latest setting.

## ADJUSTING VISUALIZATION

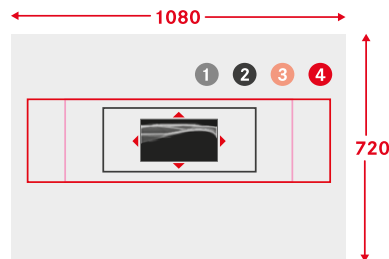
The size and position of the Waveform Monitor can be adjusted to current requirements.

### Starting the adjustment

- ▶ Touch and hold the LCD panel [on the Waveform Monitor](#)
  - Red triangles will appear at two corners of the Waveform Monitor. All other displays disappear.

### Adjusting the size

The size is adjustable in four increments.



- ▶ Turn the thumbwheel  
(to the right: larger, to the left: smaller)
- or
- ▶ Two-finger pinch/spread

### Note

- The Waveform Monitor will appear smaller in the EVF than on the LCD panel.

## Adjusting the position

You can choose any position.

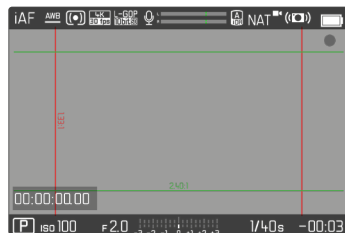
- ▶ Press the joystick in the relevant direction  
or
- ▶ Tap the LCD panel in the desired position

## Completing the adjustment

- ▶ Press the joystick/thumbwheel  
or
- ▶ Tap the shutter button

## ASPECT RATIO DISPLAY

The actually recorded aspect ratio depends on the set resolution (see p. 177). It is possible, however, to have colored auxiliary lines displayed to show other aspect ratios (e.g. 4:3). Multiple auxiliary lines can be displayed at the same time. No auxiliary lines are displayed in factory settings.



- ▶ Select **Video Aspect Ratio** in the main menu
- ▶ Select the desired setting  
(1.33:1 (4:3), 1.66:1 (5:3), 1.78:1 (16:9), 1.85:1 (37:20), 2.35:1, 2.40:1)
- ▶ Select **On/Off**

## Notes

- The format limits of a wider aspect ratio (than that of the recorded video) are indicated by horizontal green lines, those of a narrower one by vertical red lines.
- The auxiliary lines are labeled with the relevant aspect ratio.

## SAFETY AREA

Depending on the playback device used, a small area of the image borders may be invisible. It is therefore possible to display a “safety area” in a configurable width. The image is displayed with a relevantly proportioned frame around the desired image section. Multiple safety area frames can be displayed at the same time. No safety area frames are displayed in factory settings.



- ▶ Select **Video Safety Area** in the main menu
- ▶ Select the desired setting  
(80%, 90%, 92.5%, 95%)
- ▶ Select **On/Off**

## AF ASSIST LAMP

The AF assist lamp could be a visible disturbance in video recordings and is therefore always without function in video mode, no matter the setting for **AF Assist Lamp**.

## ACOUSTIC AF CONFIRMATION

You can set an acoustic confirmation signal for successful focus metering in AF mode.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Acoustic Signal**
- ▶ Select **AF Confirmation**
- ▶ Select **On**
- ▶ Select **Volume**
- ▶ Select **Low/High**

### Note

- The signal only appears during the focusing for a recording, not during recording.







## RECORDING VIDEO

The settings described in this chapter only apply for video operations. They are therefore part of the video menu and must always be accessed and configured from within video mode (see chapter “Camera operation” in the section “Menu Control”). Any menu items of the same name in the photo menu are not affected.

### Notes

- As only part of the sensor area is used in video recordings, the relevantly effective focal length is increased, which slightly reduces the size of the image sections.
- The max. file size for uninterrupted video recording is 96 GB. Once a recording exceeds this file size, the overrun will be automatically stored in a new file.
- Some menu items are unavailable in Video mode. The text in the relevant line is displayed in gray to signify the existence of a submenu.
- Unlike in photo mode, the joystick is used exclusively for focusing (metering and saving) in video mode. A coupling of exposure metering and focusing is not done, no matter which metering method is selected.
- The automatic LCD panel and EVF shutdown will also deactivate the AF system (see p. 85). We therefore recommend the **Off** setting if autofocus is to be used in HDMI recordings.

## VIDEO MODE AND CINE MODE

Cine mode is optimized for use by cinematography professionals. The mode is reduced to the most important points and the use of terminology from cinematography ensure a seamless user experience.

(Semi) automatic exposure programs (**E**, **A**, **S**) and the automatic control of light sensitivity (**Auto ISO**, **Floating ISO**) remain disabled. Light sensitivity is stated as an **ASA** value.

Unlike other video modes, the shutter speeds are not set as absolutes, but as shutter angles, relative to the selected frame rate.

In conjunction with suitable lenses, the Cine mode allows the Leica SL2-S the use of T-stops to ensure exact same exposure scenarios independent of camera settings.

Factory setting: **Video**

- ▶ Select **Recording Mode** in the main menu
- ▶ Select the desired setting (**Video**, **Cine**)

### Note

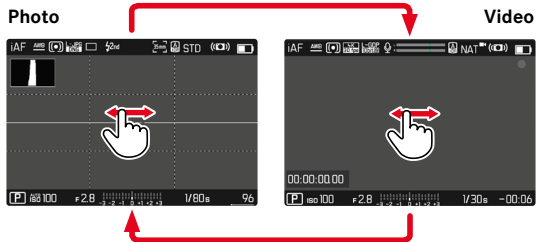
- The settings for light sensitivity (ISO/ASA), aperture and shutter speeds are saved separately for Video and Cine mode.

## START/EXIT VIDEO MODE

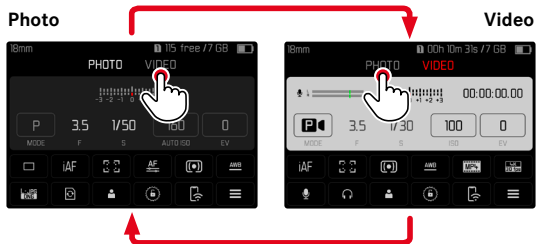
The camera will always be in Photo mode at initial activation or after a reset to factory settings. There are two methods for toggling between Photo and Video mode:

### Using touch control

#### Variant 1



#### Variant 2



- The color of the status screen changes accordingly.

### Using button control

- ▶ Press the function button with the function assignment **Photo - Video**
  - In factory settings, that will be the **FN** button.

### Note

- The camera switches to the most recently set photo or video mode.



## START/END VIDEO RECORDING



- ▶ Press the shutter button
  - Video recording begins.
  - The dot flashes red.
  - Recording time is running.
  - The Status LED flashes.
- ▶ Press the shutter button again
  - Video recording ends.
  - The dot lights in gray.

### Notes

- The current shooting is shown in the top display with a dot below the mode.
- Basic shooting settings (see p. 176) must be configured before shooting.
- No direct access to menu functions is possible during video recording.

## DUSPLAY AND OPERATION VIA USB-PTP USING EXTERNAL ACCESSORY (LIKE GIMBALS)

Leica SL2-S allows connecting an optional Gimbal like DJI Ronin RS2 via USB-PTP. The Gimbal supports blur-free recordings.

- ▶ Select **USB-Mode** in the main menu
- ▶ Select **PTP** or **Select on connection**
- ▶ Connecting the Gimbal to the camera (see Gimbal operating instructions)

Once the PTP connection is established, the camera can also be triggered via the shutter button on the Gimbal.

Many Gimbal models allow controlling the focus function of the camera, provided it is in MF mode.

### Note

- The camera screen will switch off for technical reasons if external devices connected to the USB or HDMI output are operated simultaneously.



## FOCUSING

Your Leica SL2-S allows automatic as well as manual focusing. There are 3 operating modes and 4 metering methods available for automatic focusing. Only manual setting options are available for MF lenses.

### TAKING VIDEOS WITH AF

Focusing is done as needed when **AFs** is in use. The area in the AF metering field will be focused continuously if **AFc** and **Intelligent AF** are in use. Continuous focusing can be suppressed by using a metering memory lock.

### TAKING VIDEOS WITH MF

Focusing is done manually via the focus ring. The joystick can be used as needed to do an AF metering (in **AFs** mode).

#### Note

- Autofocus can be overridden manually at any time by turning the focus ring, while pressing and holding the shutter button at the first pressure point. The set focus will remain unchanged until the shutter button is released.

## AUTOFOCUS MODES

The following AF modes are available: **AFs**, **AFc** and **Intelligent AF**.

The currently selected AF mode is shown in the header line.

Factory setting: **Intelligent AF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select the desired setting (**Intelligent AF**, **AFs**, **AFc**)

### INTELLIGENT AF

Suitable for all objects. The camera automatically selects between AFs and AFc.

### AFs (single)

A meaningful option if the focus setting should remain constant for an extended period of time. Allows greater control over focusing and helps to avoid incorrect focusing.

### AFc (continuous)

Suitable for objects in motion. Focusing is continuously adjusted to the object in the AF metering field.

Facilitates an intuitive focus control, specifically in conjunction with Touch AF.

## CONTROLLING THE AUTOFOCUS

### TOUCH AF

During video recordings, Touch AF facilitates a more intuitive focus control, even if the main object moves outside the center of the frame. See p. 194 for more information.

- ▶ Tap the LCD panel in the desired position
  - Focusing is done after the touch.

### SUPPRESSING CONTINUOUS FOCUSING

Continuous focus adjustments can be suppressed by initiating a metering memory lock.

Use the following control elements depending on the currently selected mode:

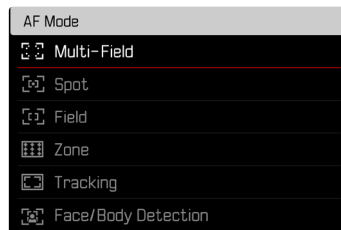
Intelligent AF	Shutter button (tap and hold)
	Joystick (press and hold)
AFc	Joystick (press and hold)

The camera stores the focus setting. That makes it easier to change the image section when focusing is fixed. The focus remains constant as long as the control element is held. Automatic focusing will only resume after the control element is released.

## AUTOFOCUS METERING METHODS

The AF mode offers various metering methods for focusing. A successful focus setting is identified by a green metering field, an unsuccessful one is shown in red.

Factory setting: **Multi-Field**



- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Mode**
- ▶ Select the desired setting  
(**Multi-Field**, **Spot**, **Field**, **Zone**, **Tracking**, **Eye//Face/Body Detection**)

### Note

- AF focusing can be unsuccessful:
  - if the distance to the object is too great (macro mode) or too small
  - if the object is not sufficiently illuminated

## MULTI-FIELD

Several metering fields are detected automatically.

## SPOT/FIELD

Both methods detect only those parts of the object that are within the relevant AF metering fields. The metering fields are indicated by a small frame (field metering) or a cross (spot metering). The very small measuring range for spot metering allows focusing on tiny details of the subject. Simply move the AF metering field to another position.

The slightly larger measuring range in field metering is less critical for focusing, but still permits selective metering.

- ▶ Press the joystick in the relevant direction

or

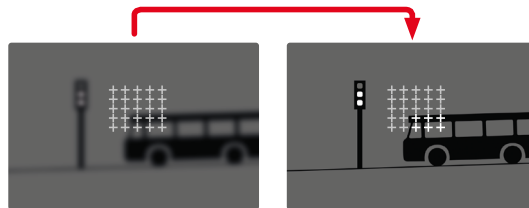
- ▶ Tap the LCD panel in the desired position (while Touch AF is activated)

## Notes

- In both cases, the metering fields remain at their last positions set, even if the metering method is changed or the camera is switched off.
- The metering fields are joined together when the exposure metering method **Spot** is combined with the AF metering methods **Spot**, **Field** and **Zone**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

## ZONE

With this metering method, subject sections are recorded with a coherent group comprising 5 x 5 fields.



Once the setting has been made, the metering fields are displayed where object sections are displayed in focus.

## TRACKING

This field metering variant helps in the capture of moving objects. The focus on the object in the metering field is continuously adjusted, once it is detected.

- ▶ Aim the metering field at the desired object (by panning the camera shifting the metering field)
- ▶ Tap and hold the shutter button

or

- ▶ Press and hold the joystick
  - The camera focuses on the object.
  - The metering field “tracks” the saved object and focus is continuously adjusted.

### Note

- This metering method focuses continuously, even if the AF mode **AFs** was set.

## START POSITION FOR TRACKING

Factory setting: **Center**

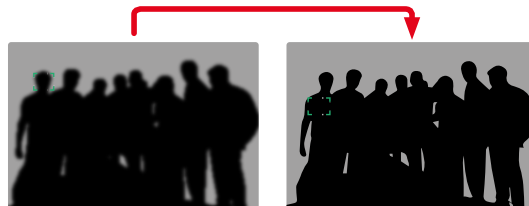
You can specify the starting point for tracking.

<b>Center</b>	Center of the screen
<b>Last Position</b>	Ending position of the most recent tracking
<b>Recall</b>	Starting position of the most recent tracking

- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **AF Tracking Start Position**
- ▶ Select the desired setting (**Last Position**, **Recall**, **Center**)

## PERSON DETECTION (FACE DETECTION)

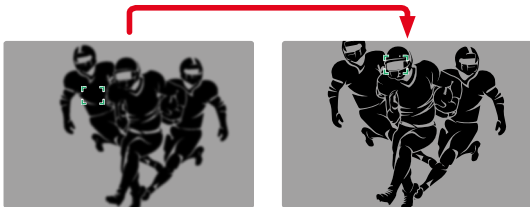
Person detection is an expansion of the face detection feature. In addition to biometric patterns of faces, the camera also detects body patterns and uses them for focusing. Tracking will therefore continue, once a person is detected and measured, even if the face may not be in view at some point. This feature prevents inadvertent “jumps” to other faces if several persons are in the frame.







When face detection detects an eye, the focus will be on that eye. Should more than one eye be detected, then the user can choose the eye to focus on. The currently selected eye will be highlighted. Additionally, the desired face can be easily selected if there are several faces in the frame.



#### Switching between faces

- ▶ Press the joystick in the relevant direction

#### Switching the focused eye

- ▶ Press the joystick

## AF SETTINGS

### SENSITIVITY

Specifies the sensitivity of contrast metering.

Factory setting: 0

- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **AF Sensitivity**
- ▶ Select the desired setting  
(-3, -2, 1, 0, +1, +2, +3)

### SPEED

Where objects are not as fast-moving, it is advisable to set AF Speed to a slightly lower value. This will prevent overly abrupt focus changes. For very fast-moving objects, a high setting will guarantee a correct focus.

Factory setting: 0

- ▶ Select **Focusing** in the main menu
- ▶ Select **AF Setup**
- ▶ Select **AF Speed**
- ▶ Select the desired setting  
(-5, -4, 3, -2, -1, 0, +1, +2, +3, +4, +5)



## FOCUS LIMIT

The focus area can be limited to the macro range. This will speed up automatic focusing considerably.

Factory setting: **Off**

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Focus Limit (Macro)**
- ▶ Select **On/Off**

### Notes

- The focusing range differs depending on the lens used (see relevant instructions).
- This function is not available for specific lenses:
  - lenses mounted via an adapter (e.g. Leica M lenses with L adapter M)
  - specific Leica SL lenses

## AF QUICK SETTING

AF Quick Setting offers the following functions:

- Quick switches of the AF metering methods
- Changing the metering field size (**Field** and **Eye/Face/Body Detection** only)

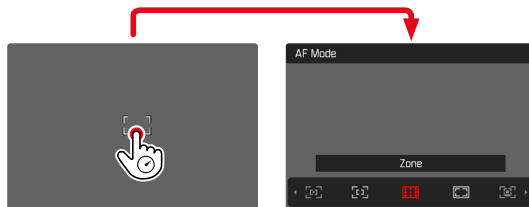
The viewfinder image remains visible continuously during setting adjustments.

### ACCESSING AF QUICK SETTING

- ▶ Tap and hold the LCD panel
  - All auxiliary displays are hidden.
  - Red triangles appear at two corners of the metering field if the metering method **Field/Eye/Face/Body Detection** is set.



- In all other AF modes, the **AF Mode** menu bar will be displayed directly.





## ADJUSTING THE METERING FIELD SIZE

(Field and Eye/Face/Body Detection only)

- ▶ Turn the thumbwheel

or

- ▶ Two-finger pinch/spread
  - The size of the AF-metering field is adjustable in 3 increments.

## CHANGING THE AF METERING METHOD

The user needs to access the **AF Mode** menu bar first if the active AF mode is **Field** or **Eye/Face/Body Detection**:

- ▶ Turn the front dial
  - The **AF Mode** menu bar appears.
- ▶ Select the desired metering method
  - Alternatively, you can use the front dial for the setting.
  - The setting is applied automatically after 3 seconds, the menu bar disappears.

### Notes

- This function is unavailable while recording.
- AF Quick Setting can only be accessed if the function **Touch AF** is active (see p. 194).

## MF ASSIST FUNCTIONS

### ENLARGEMENT IN AF MODE

You can access the enlargement function independent of focusing for a better assessment of the settings.

The function **Magnification** must be assigned to one of the function buttons to use this feature (see p. 71).

#### Assigning a function to one of the function buttons

- ▶ See p. 71

#### Accessing the enlargement function

- ▶ Press the function button
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.

#### Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial

#### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

#### Exiting the enlargement function

- ▶ Tap the shutter button



## Notes

- The enlargement function remains active until it is exited.
- The most recently magnification function will still be active the next time the feature is accessed.
- This function is unavailable while recording.

## AF ASSIST LAMP

The AF assist lamp is not active in video mode.

## ACOUSTIC AF CONFIRMATION

You can set an acoustic confirmation signal for successful focus metering in AF mode (see p. 85).

## Note

- This function is unavailable while recording.

## SHIFTING THE AF METERING FIELD

All AF metering methods permit shifting the AF metering field before focusing.

- ▶ Press the joystick in the relevant direction  
or
- ▶ Tap the LCD panel in the desired position  
(while Touch AF is activated)

## Notes

- The metering field will remain at the most recently used position for this AF metering method even if the user changes the AF metering method or the camera is switched off.
- The metering fields are joined together when the exposure metering method **Spot** is combined with the AF metering methods **Spot**, **Field** and **Zone**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

## MANUAL FOCUSING (MF)

Manual focusing offers more control and is less prone to incorrect settings than the AF modes.

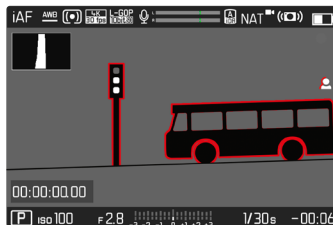
- ▶ Select **Focusing** in the main menu
  - ▶ Select **Focus Mode**
  - ▶ Select **MF**
- 
- ▶ Start video recording
  - ▶ Turn the focus ring to select the desired focusing


## MF ASSIST FUNCTIONS

The following assist functions are available in MF mode.

### FOCUS PEAKING

This assist function highlights the edges of in focus subject elements in color.



When Focus Peaking is activated,  will appear to the right of the frame with a display of the color used. The color can be user-specified. The sensitivity can be additionally adjusted. The activation of this function is controlled via the info profiles (see p. 197).

- ▶ Activate the function
- ▶ Turn the focus ring to mark the desired subject elements

### Note

- Focus peaking is based on subject contrast, i.e. differences between light and dark. As a result, high contrast subject elements could be marked, even if they are not completely in focus.



## ENLARGEMENT IN MF MODE

The larger the details of the subject are shown, the better you can assess their sharpness and the more accurately you can focus.

This function can be automatically activated during manual focusing or can be accessed independently.

### ACCESS VIA THE FOCUS RING

Turning the focus ring will automatically enlarge a image section.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Aid**
- ▶ Select **Auto Magnification**
- ▶ Select **On**
- ▶ Turn the focus ring
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.

### Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial

### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

## Exiting the enlargement function

- ▶ Tap the shutter button

or

- ▶ Decrease the enlargement, until the full image is visible again

### Notes

- The magnification will automatically return to normal viewing size about 5 s after the last movement of the focus ring.
- This function is unavailable while recording.

### ACCESS VIA THE FUNCTION BUTTON

This function can be assigned to a function button.

### Assigning a function to one of the function buttons

- ▶ See p. 71

### Accessing the enlargement function

- ▶ Press the function button
  - An enlarged image section appears. The position of the enlargement depends on the position of the AF metering field.
  - The rectangle within the frame at the top right represents the current magnification, as well as its position in the displayed cropped section.
  - The enlargement starts at the 1st of 3 enlargement increments.

### Adjusting the enlargement function

- ▶ Turn the thumbwheel/front dial



### Changing the position of the enlarged section

- ▶ Swiping will allow you to move the position of an enlarged cropped section

or

- ▶ Press the joystick in the relevant direction

### Exiting the enlargement function

- ▶ Tap the shutter button

### Note

- The enlargement function remains active until it is exited.

## DISTANCE DISPLAY

Distance information is shown in the top display during manual focusing.

- Focus Mode MF: when the shutter button is pressed to the first pressure point
- Focus Mode AF: when the shutter button is pressed and held at the first pressure point, followed by a turning of the focus ring

The unit of measure (m or ft) can be selected, see p. 81.

### Note

- The focus distance is estimated based on the focus position transmitted by the lens.

## FOLLOW FOCUS

This function facilitates automatic transitions to specified focus settings (focus positions). Up to three such focus positions can be pre-configured and optionally be set up with a delay time. When a focus position is accessed, the camera will automatically focus on the set distance. The transition will then be achieved smoothly and with a configurable speed. That way, soft, almost unnoticeable transitions are created. Prerequisite is that the relevant distances are known beforehand.

The specified focus positions can be accessed individually or in an automated sequence.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select **Follow Focus**
- ▶ Select **Focus Position**
  - “Follow Focus” is activated. The Follow Focus menu appears.



- The Follow Focus menu remains visible until the function is exited.

## FUNCTION BEHAVIOR

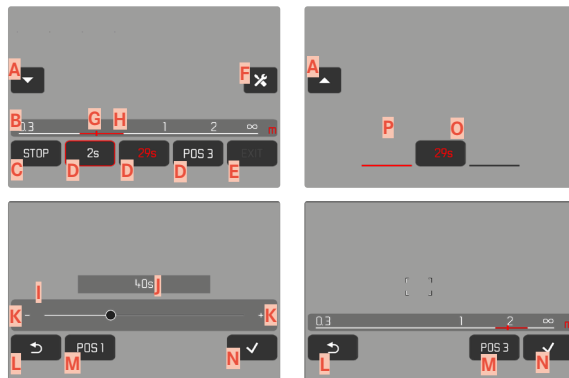
The function continues to run regardless of whether the camera is currently recording. All operating procedures described in the following can therefore also occur while actively recording. It is also possible to start and stop a recording during an active focus sequence, or to exit the Follow Focus menu while recording.

### Notes

- The following limitations apply while the function is active:
  - Depending on their assignments, some function buttons may be unavailable.
  - EVF is unavailable.
- **Follow Focus** is not available under the following conditions:
  - Recordings in slow motion
  - When using a lens adapter
  - When using MF lenses
  - When using lenses with AF/MF switch if the MF setting is selected

## FOLLOW FOCUS MENU

All operation is done via touch control only.



- A** Button for expanding/reducing the Follow Focus menu
- B** Focus position settings bar (Sharp focus in m or ft)
- C** “START” button (initiates the automatic focus sequence)
- D** Focus positions
- E** “EXIT” button (exits the Follow Focus menu)
- F** “Edit” button (only for pre-configured focus positions)
- G** Display of the set distance
- H** Display of the distance range in clear focus (Depth of field range, depending on the in-focus distance and the exposure value)
- I** Delay time settings bar
- J** Set delay time
- K** Buttons “Plus” and “Minus”
- L** “Back” button
- M** Currently selected focus position
- N** “Confirm” button
- O** Running delay time
- P** Currently set focus position



The Follow Focus menu can be reduced to essential elements for better visibility.

- ▶ Tap button **A**
  - The Follow Focus menu toggles between full and reduced view.

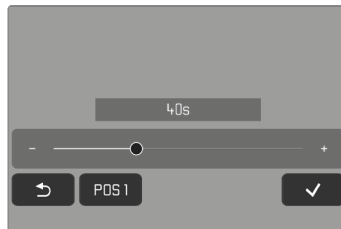
#### Note

- Focus positions cannot be selected directly in reduced view.

## PREPARATION

### CONFIGURING A FOCUS POSITION

- ▶ Tap the desired focus position
  - The delay time settings menu appears.



#### Setting a delay time

Delay times up to 120 s can be set (default setting is 0 s).

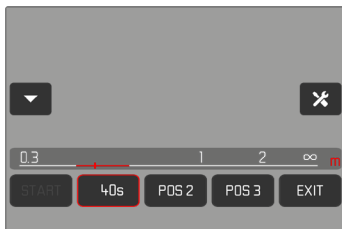
- ▶ Tap the buttons “Plus” and “Minus”  
or
- ▶ Tap the desired setting directly via the settings bar
  - The selected time is displayed above the settings bar.
- ▶ Tap the “Confirm” button
  - The distance settings menu appears.



## Setting the distance



- ▶ Select the desired distance
  - Focusing can be done manually or via AFs (joystick/Touch AF). The shutter button remains locked.
  - The settings bar displays the set distance.
- ▶ Tap the “Confirm” button
  - The display returns to the top level of the Follow Focus menu.



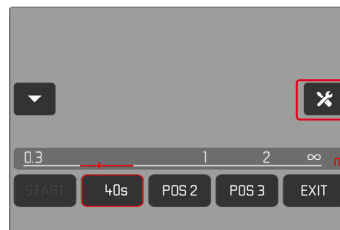
- The currently set focus position is indicated by a red frame. The settings bar displays the set distance.
- The set delay time is displayed instead of **POS 1**, **POS 2** or **POS 3**.

## Canceling the setting

- ▶ Tap the “Back” button
  - The display reverts to the previous menu level.

## CHANGING THE FOCUS POSITION

- ▶ Tap the desired button
  - The “Edit” button appears.



- ▶ Tap the “Edit” button
  - Any running delay time or focus setting is canceled.
  - The delay time settings menu appears.
- ▶ Define a new focus position



## APPLICATION

The **Follow Focus** function can be utilized in two ways.

- The pre-configured focus positions are accessed individually as needed.
- All configured focus positions are selected automatically in sequence.

Both methods can also be combined.



## ACCESS AS NEEDED

The configured focus positions can be accessed any number of times.

With delay time:

- The active delay time is displayed in red and counts down.
- After that, the transition to the next desired focus position begins.

Without delay time:

- The transition to the next desired focus position is immediate.
- ▶ Tap the desired focus position
  - The camera focuses with the set speed on the configured distance (once the delay time has elapsed - if set).



## Note

- The transition to a focus position can be canceled via the “STOP” button, as long as it is not yet completed.

## AUTOMATIC SEQUENCE

An automatic sequence of focus positions can be initiated if at least two positions have been configured.

### START

- ▶ Configure at least two focus positions
- ▶ Tap the “START” button
  - The “START” button becomes “STOP” for the duration of the sequence.
  - All configured focus positions will be accessed in sequence (once the set delay time has elapsed - if any).



All other buttons are deactivated while the focus sequence runs.

### Note

- The automatic focus sequence can be run any number of times. The focus sequence will automatically revert to the first position when it is restarted.

### CANCEL

- ▶ Tap the “STOP” button
  - The running focus sequence is canceled.

### Initiating the automatic focus sequence directly at the beginning of the recording

The automatic focus sequence can be initiated directly at the beginning of the recording.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select **Follow Focus**
- ▶ Select **Start FF with Recording**
- ▶ Select **On/Off**

### Exiting the function

- ▶ Canceling a running sequence
- ▶ Tap the “EXIT” button
  - The “EXIT” button is unavailable while a focus sequence is running.



## OTHER SETTINGS

### SPEED

The speed at which one focus position transitions to the next can be configured. This setting will then apply for all transitions.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select **Follow Focus**
- ▶ Select **Speed**
- ▶ Select the desired setting  
(**Very Low**, **Low**, **Medium**, **High**, **Very High**)

### SUBSEQUENT FOCUS MODE

After exiting, you can switch automatically to a pre-configured focus mode (e.g. **MF**) or to the most recently used focus mode.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select **Follow Focus**
- ▶ Select **Return to**
- ▶ Select the desired setting  
(**intelligent AF**, **AFs**, **AFc**, **MF**, **Previous setting**)

## ISO SENSITIVITY

### (Video mode)

The ISO setting covers a range between ISO 50 and ISO 50000, allowing you to adapt to the current situation.

There is more leeway for the use of preferred shutter-speed/aperture combinations when setting the exposure manually. You can set priorities within the scope of the automatic setting.

Factory setting: **ISO 100**

### FIXED ISO VALUES

ISO values between 50 and 50,000 can be selected. Manual ISO setting occurs in increments of 1/2 EV or 1/3 EV, depending on the selected **EV Increment** setting. The number of available ISO values depends on the selected **EV Increment**.

- ▶ Select **ISO** in the main menu
- ▶ Select the desired setting

### Note

- When high ISO values are used or the image is edited later, image noise, as well as vertical and horizontal stripes may become visible, particularly in larger, evenly lit areas of the object.



## AUTOMATIC SETTING

The camera automatically adjusts the sensitivity to ambient brightness and/or to the configured shutter-speed/aperture combination. In conjunction with aperture priority mode, this function extends the range for automatic exposure control. The automatic setting of ISO sensitivity occurs in increments of 1/2 EV or 1/3 EV, depending on the selected **EV Increment** setting.

- ▶ Select **ISO** in the main menu
- ▶ Select **Auto ISO**

### Note

- This function is not available in Cine mode.

## LIMITING SETTING RANGES

A max. ISO value can be set, which will then limit the automatic setting range (**Maximum ISO**). A max. exposure time can also optionally be configured. There are automatic settings and fixed max. shutter speeds **1/30s** and **1/2000s** available for that purpose.

### LIMITING ISO VALUES

All values from ISO 100 are available.

Factory setting: **6400**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Maximum ISO**
- ▶ Select the desired value

### LIMITING SHUTTER SPEED RANGES

Factory setting: **Auto**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit**
- ▶ Select the desired value  
(**Auto, 1/2000, 1/1000, 1/500, 1/250, 1/125, 1/60, 1/30**)

## DYNAMIC ISO SETTING

The thumbwheel and front dial can be configured to allow manual ISO settings in real time. That is the factory setting in the operating modes **S**, **A** and **M**. Turning the dial will cycle through all setting values available in the **ISO** menu. That means that **Auto ISO** can also be selected.

## FLOATING ISO

This function complements Auto ISO. Light strength changes with many zoom lenses when the focal length is changed. Floating ISO will in this situation adjust the sensitivity in fine graduations and will simultaneously ensure that the selected settings of aperture value and shutter speed remain constant in (semi) automatic exposure modes. This will specifically in video shootings prevent visible jumps in brightness.

Factory setting: **On**

- ▶ Select **Floating ISO** in the main menu
- ▶ Select **On**

### Notes

- **Floating ISO** can work only if the original ISO setting allows scope for change, i.e. the highest/lowest ISO setting is not already being used. The **Floating ISO** warning icon will be displayed in that case.
- This function is not available in Cine mode.





## ASA SENSITIVITY

### (Cine-Mode)

The sensitivity setting in Cine mode is always done manually. The menu item **Exposure Index** replaces the menu item **ISO**. The value is stated in ASA units. Automatic settings (Auto ISO/Floating ISO) are unavailable.

Factory setting: **400 ASA**

- ▶ Select **ISO** in the main menu
- ▶ Select the desired setting

(**50 ASA**, **100 ASA**, **200 ASA**, **400 ASA**, **800 ASA**, **1600 ASA**, **3200 ASA**, **6400 ASA**, **12500 ASA**, **25000 ASA**, **50000 ASA**)

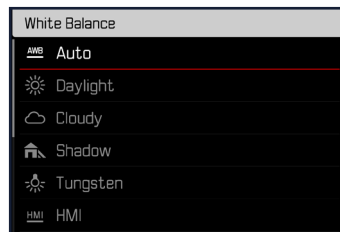
## WHITE BALANCE

In white balance ensures neutral color rendering in any light. White Balance relies on the setting made in the camera, which light color is to be rendered as 'white'.

Four methods are available:

- automatic control
- fixed presets
- manual setting via metering
- direct setting of the color temperature

Factory setting: **Auto**







## AUTOMATIC CONTROL/FIXED SETTINGS

- **Auto**: for automatic control, which delivers neutral results in most situations
- Various fixed presets for most frequently encountered light sources:

Daylight	For outdoor shootings in sunlight
Cloudy	For outdoor shootings in cloudy conditions
Shadow	For outdoor shootings with the main subject in shadow
Tungsten	For indoor shootings with (predominantly) incandescent lamp light
HMI	For indoor shootings with (predominantly) light from metal halide lamps
Fluorescent (warm)	For indoor shootings with (prevailing) light from fluorescent tubes with warm light color
Fluorescent (cool)	For indoor shootings with (prevailing) light from fluorescent tubes with cool light color
Flash	For shooting with flash

- ▶ Select **White Balance** in the main menu
- ▶ Select the desired setting

## MANUAL SETTING VIA METERING

( **Graycard**/ **Graycard Live View**)

The variant **Gray card** is suited best for subjects in which you can clearly identify a neutral gray or pure white area. If not, or should you base your metering on an off-center detail, then **Graycard Live View** will be a better choice.

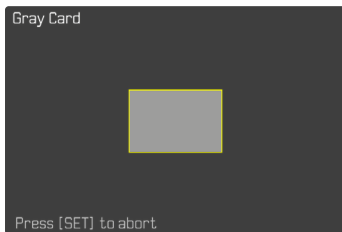
### Note

- A value configured using this method will remain unchanged (i.e. it will be used for all subsequent photographs) until new measurements are taken or one of the other white balance settings is selected.

## GRAY CARD

This metering variant captures all color hues in the metering field and uses these to calculate a mean gray value.

- ▶ Select **White Balance** in the main menu
- ▶ Select **Gray card**
  - The following appears on the LCD panel:
    - the image based on automatic white balance
    - a frame in the center of the image



- ▶ Aim the metering field at a white or neutral gray area
  - The screen image changes dynamically in line with the reference area in the frame.

### Performing measurement

- ▶ Shutter release

or

- ▶ Press the joystick/thumbwheel
  - The measurement is taken.

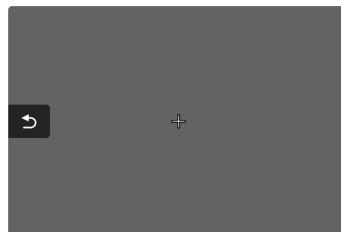
### Cancelling measurements

- ▶ Press the **FN** button

## GRAY CARD LIVE VIEW

This metering variant captures only the color hue metered within the metering field and calculates the mean gray value from it.

- ▶ Select **White Balance** in the main menu
- ▶ Select **Graycard Live View**
  - The following appears on the LCD panel:
    - the image based on automatic white balance
    - a cross in the middle of the image



- ▶ Aim the metering field at a white or neutral gray area

### Repositioning the metering field

- ▶ Press the joystick in the relevant direction

### Performing measurement

- ▶ Shutter release

or

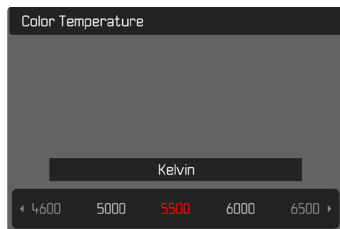
- ▶ Press the joystick/thumbwheel
  - The measurement is taken.

### Cancelling measurements

- ▶ Press the **FN** button

## DIRECT SETTING OF THE COLOR TEMPERATURE

Values between 2000 and 11,500 K (Kelvin) can be set directly. That gives you a very wide range, which covers virtually all color temperatures occurring in real life and within which you can adapt color rendering to any light color and your personal preferences with incredible detail.

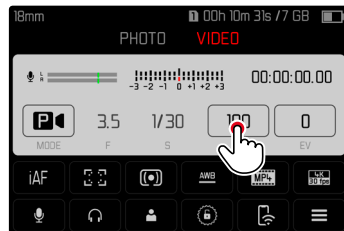


- ▶ Select **White Balance** in the main menu
- ▶ Select **Color Temperature**
- ▶ Select the desired value

## EXPOSURE

The exposure setting is done dynamically via the two setting wheels. Generally, the thumbwheel controls the aperture, and the front dial controls ISO sensitivity. Function assignments can be modified, see p. 72.

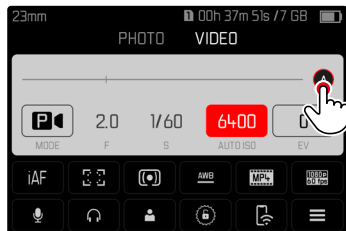
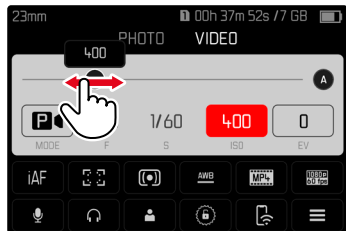
Exposure settings can be done quickly and easily via the status screen.



- ▶ Tap the desired control panel
  - The active control panel is highlighted in red.
  - A setting band appears instead of the light balance. A dot marks the current setting. The current setting value is displayed above the dot.







- ▶ Tap the setting band briefly in the desired position, or drag the dot to the desired position



## EXPOSURE METERING METHODS

The following exposure metering methods are selectable.

Factory setting: **Multi-Field**

-  Spot
-  Center-weighted
-  Highlight-Weighted
-  Multi-field

- ▶ Select **Exposure Metering** in the main menu
- ▶ Select the desired metering method (**Spot**, **Center-Weighted**, **Highlight-Weighted**, **Multi-Field**)
  - The selected metering method is displayed in the header line of the screen image.

Spot metering allows a shifting of the metering field:

- ▶ Press the joystick in the relevant direction

### Notes

- The exposure information (ISO value, aperture, shutter speed and light balance with exposure compensation scale) will help to determine the settings required for correct exposure.
- The most important displays (ISO value, aperture and shutter speed) will also appear in the top display.



## SPOT

This metering method is concentrated exclusively on a small area in the center of the image. The metering fields are joined together when the exposure metering method **Spot** is combined with the AF metering methods **Spot**, **Field** and **Zone**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

## CENTER-WEIGHTED

This method considers the entire image field. The subject elements captured in the center will, however, impact on the calculation of the exposure value more so than areas around the edges.

## MULTI-FIELD

This metering method is based on the detection of multiple values. These values are used in an algorithm to calculate an exposure value appropriate for a good rendering of the assumed main subject.

## HIGHLIGHT-WEIGHTED

This method considers the entire image field. The exposure value will, however, be adjusted to very bright subject elements. That prevents the overexposure of bright subject elements without having to measure them individually. This metering method is particularly useful for objects that are significantly more brightly lit than the rest of the frame (e.g. people in a spotlight), or that reflect the light significantly (e.g. white clothing).

Multi-field	Highlight-weighted
	
	
	

## EXPOSURE MODES

You can choose one of four video shooting modes:

- Automatic program (**P**)
- Aperture priority mode (**A**)
- Shutter speed priority mode (**S**)
- Manual setting (**M**)

Cine mode also offers another, fully manual mode.

### Notes

- When using a lens with an aperture ring (e.g. Leica M lenses), only the exposure modes **A** (aperture priority) and **M** (manual setting) will be available. Where that is the case, **F0.0** is displayed as the aperture value.
- The following applies for all exposure modes: the available shutter speeds for custom settings or those available for automatic settings depend on the selected frame rate ([Video Resolution](#), see p. 177).
- When Auto ISO is active, the camera uses the dynamic adjustment function for the ISO value for the exposure setting. Depending on the exposure mode selected, the automatic ISO setting interacts with automatically controlled aperture and/or shutter speed settings.

## SELECTING A MODE

### Via the thumbwheel

- ▶ Press the thumbwheel
  - The currently selected mode is shown in the top display. The currently selected mode is marked in red on screen.
- ▶ Turn the thumbwheel to select the desired mode
  - The mode display changes in the top display and on screen. All modes can be reached by turning the wheel in either direction.
  - The selected mode will be applied automatically approx. 2s after the thumbwheel is moved the last time.

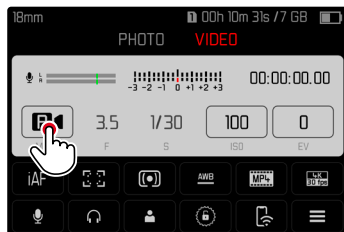


### Applying the selected mode immediately

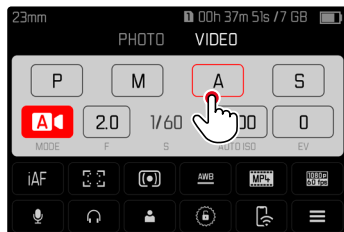
- ▶ Press the joystick/thumbwheel
- or
- ▶ Tap the shutter button

Via the status screen

- ▶ Tap the control panel



- ▶ Tap the desired exposure mode



## FULLY AUTOMATIC EXPOSURE SETTING – P

### AUTOMATIC PROGRAM – P

The exposure is controlled by an automatic shutter speed and aperture setting.

The exposure compensation and recording level are controlled directly via the setting wheels.



- ▶ Select the operating mode **P** (see p. 238)
- ▶ Set exposure compensation as needed
- ▶ Start video recording

### Note

- Automatic exposure control takes into account any fluctuations in brightness. Set the shutter speed manually if this is undesirable, e.g. for landscape recordings or panning.



## SEMI-AUTOMATIC EXPOSURE SETTING – A/S

### APERTURE PRIORITY - A

Aperture priority mode sets the exposure automatically according to the manually selected aperture. It is therefore specifically suitable for video recordings in which the depth of field is a critical compositional element.

The range of the depth of field can be diminished with an accordingly small exposure value. This will set off the focused area against the unfocused background. Conversely, a greater exposure value will increase the range of the depth of field. Such a setting is advisable if the foreground and background should be rendered in sharp focus. The selected aperture setting will be maintained for the duration of the recording.

- ▶ Select the operating mode **A** (see p. 238)
- ▶ Set the desired exposure value
- ▶ Start video recording

### SHUTTER SPEED PRIORITY – S

Shutter speed priority mode will set exposure automatically according to the manually selected shutter speed. The selected shutter speed will be maintained for the duration of the recording.




- ▶ Select the operating mode **S** (see p. 238)
- ▶ Select the desired shutter speed
- ▶ Start video recording

## MANUAL EXPOSURE SETTING – M

The following manual settings for shutter speed and aperture are a good choice:

- to maintain constant exposure settings between multiple recordings
- to maintain constant exposure settings while recording, specifically in conjunction with fixed ISO settings
- ▶ Select the operating mode **M** (see p. 238)
- ▶ Select desired exposure
  - The exposure compensation is done using the scale of the light balance.
- ▶ Start video recording

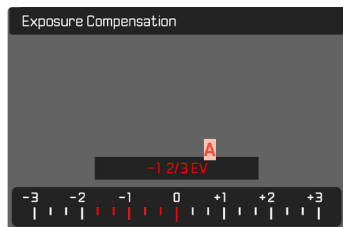
Displays on the light balance:

	Correct exposure
	under/overexposure by the displayed value
	under or overexposure by more than 3EV



## EXPOSURE COMPENSATION

Exposure compensation values can be set in the range  $\pm 3$  EV. The available values depend on the global setting **EV Increment** (see p. 195).



**A** Set compensation value (marks at 0 = Off)

- ▶ Select **Exposure Compensation** in the main menu
  - A scale appears as a submenu item on the LCD panel.
- ▶ Set the value on the scale
  - The set value is displayed above the scale.
  - While setting the value, you can see the effect on the screen image, which becomes darker or lighter.

## Notes

- This function is assigned to one of the setting wheels in the three (semi) automatic exposure modes and therefore quickly accessible (see p. 72).
- The set exposure compensation is indicated by a mark on the exposure compensation scale in the footer line (see p. 30).
- The following applies for set compensation values, no matter how they were initially set: They remain effective until they are manually reset to **0**, even if the camera is switched off and on again in the meantime.
- Changes to the **EV Increment** setting (see p. 195) lead to the cancellation of a compensation that has been set, i.e. in such cases it is automatically reset to **0**.



## PLAYBACK MODE

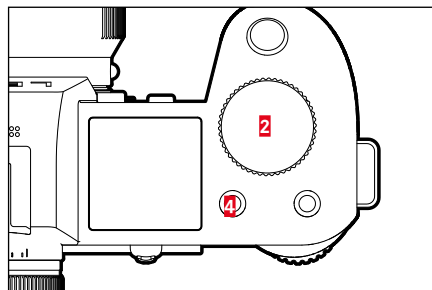
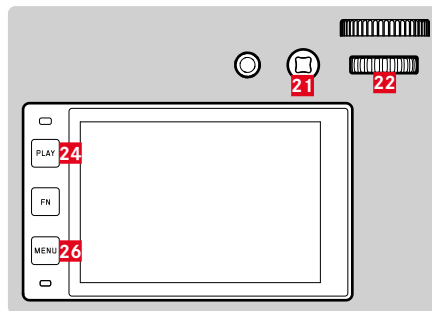
Playback mode is used to display and manage the stored recordings. The switchover between shooting and playback mode, as well as most other actions can be completed using gesture or key control. Please see p. 55 for more information about the available gestures.

### Notes

- Recorded videos are not automatically rotated in playback mode to utilize the full screen area.
- It may not be possible to render files with this camera that were not recorded with this device.
- In some cases, the screen image may not have the expected quality, or the LCD panel will remain blank and only display the file name.
- You can toggle back from playback mode to shooting mode at any time by tapping the shutter button.

## CONTROL ELEMENTS IN PLAYBACK MODE

### CONTROL ELEMENTS ON THE CAMERA



2 Front dial

4 Function button

20 Function button

21 Joystick

22 Thumbwheel

24 **PLAY** button

25 **FN** button

26 **MENU** button

## FUNCTION BUTTONS IN REVIEW MODE

In playback mode, the function buttons either have permanently assigned functions or are without function.

The following function buttons have assigned functions:

Button	Function
FN button <b>25</b>	Toggle Info Levels
Function button <b>20</b>	EVF-LCD
Function button <b>4</b>	Mark shots (Rate / Unrate)

## CONTROL ELEMENTS ON THE LCD PANEL

On-screen control elements generally function by intuitively by touch. Many can also be selected by pressing one of the three buttons to the left of the LCD panel. A control element in the header is accompanied by an icon denoting the relevant button. A control element on the edge of the screen will be positioned directly next to the relevant button.

Example: The “Go back” icon ↶ can be selected in one of two ways:

- tap on the “Go Back” icon directly
- press the relevant button (top button = **PLAY** button)



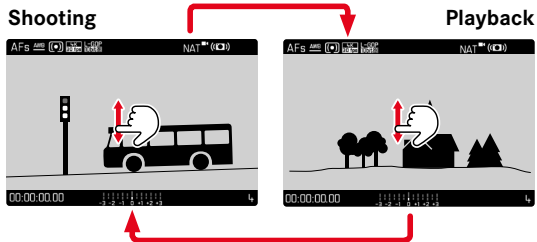
- A** Control element “Go back”
- B** Control element “Delete”
- C** Display of the relevant button



## INITIATE/EXIT PLAYBACK MODE

### Using touch control

- ▶ Swipe up or down



### Using button control

- ▶ Press the **PLAY** button
  - The last shot taken appears on the screen.
  - The following message appears if the inserted memory card does not contain any (image) files: **No valid picture to play.**
  - The **PLAY** button function differs, depending on the current camera setting:

Initial situation	After pressing the PLAY button
Full screen display of a recording	Recording mode
Display of multiple small recordings	Full screen display of the recording

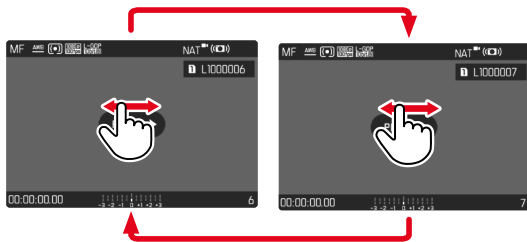
## SELECTING/SCROLLING THROUGH IMAGES

The shots are visually arranged in a horizontal reel. When the end of an image series is reached, the display automatically jumps back to the first image in the series. All shots can therefore be reached by scrolling either right or left.

### SINGLE

#### Using touch control

- ▶ Swipe to the left or right

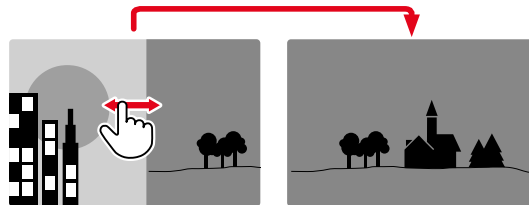


#### Using button control

- ▶ Press the joystick left/right
- or
- ▶ Turn the thumbwheel

### CONTINUOUS

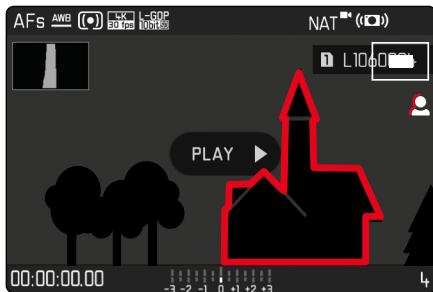
- ▶ Swipe to the left or right and hold the finger on the edge of the screen
  - The subsequent shots will move past continuously.





## INFO DISPLAYS IN PLAYBACK MODE

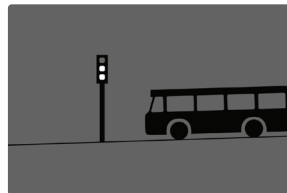
The same info profiles are available in playback mode as in shooting mode. The actual info profile currently in use, however, is saved separately. It is therefore possible to use an empty info profile completely without assist function icons in playback mode, without having to set them again when switching to shooting mode. See p. 104 for setting options and additional information. The assist functions **Grid** and **Level Gauge** are not available in playback mode.



## DISPLAYING ASSIST FUNCTIONS

### Switching between info profiles

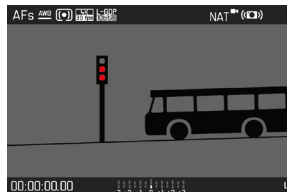
- ▶ Press the **FN** button



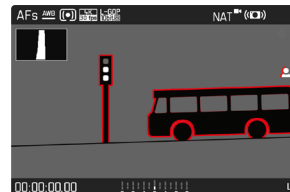
Empty info profile



Image data only  
(Info Bars)



Clipping / Zebra + Info Bars



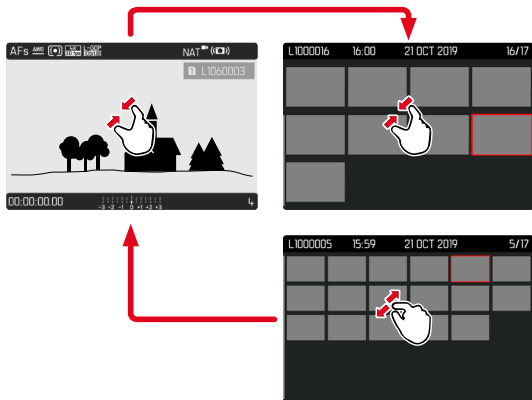
Info Bars, Focus Peaking,  
Histogram

## DISPLAYING MULTIPLE SHOTS AT ONCE

The camera offers an overview function in which several thumbnail images can be viewed on one screen, which makes it easier to find a specific image. You can choose 12 or 30 images per overview.

### OVERVIEW

#### Using touch control



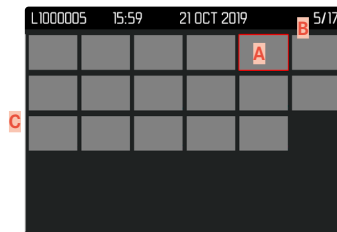
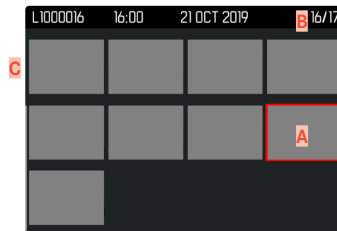
- ▶ Two-finger pinch
  - The display toggles from 12 to 30 thumbnails.

#### Viewing other images

- ▶ Swipe up or down

#### Using button control

- ▶ Turn the front dial in anti-clockwise direction
  - 12 thumbnails are shown at the same time. Another turn on the thumbwheel increases the number of displayed thumbnails to 30.



- A** Currently selected image
- B** Number of the currently selected images
- C** Scrollbar

The currently viewed image is framed in red and can be selected for a closer look.



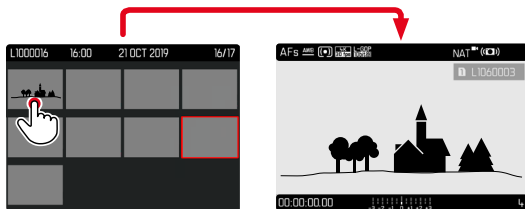
## Navigating between images

- ▶ Press the joystick in the relevant direction
- or
- ▶ Turn the thumbwheel

## Displaying the image in full size

### Using touch control

- ▶ Two-finger spread
- or
- ▶ On the desired recording



### Using button control

- ▶ Turn the front dial in clockwise direction
- or
- ▶ Press joystick, thumbwheel or **PLAY** button

## TAGGING/RATING OF RECORDINGS

Images can be marked as favorites to find them quicker or to simplify the later deletion of multiple images. Tagging can be done in regular view mode or in the overviews.

### Tagging a recording

- ▶ Press the function button **4**
- or
- ▶ Press the joystick up
  - The recording is marked with ★. The icon will appear in the header line on the far right when viewing images in full size, and in the top left corner of the thumbnail in overview mode.

### Removing a tag

- ▶ Press the function button **4**
- or
- ▶ Press the joystick down
  - The ★ marking disappears.

### Note

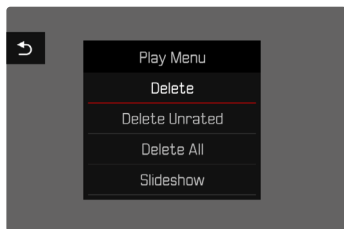
- In the overview, recordings can only be tagged via the function button.



## DELETING RECORDINGS

There are several methods available to delete recordings:

- deleting individual recordings
- deleting multiple recordings
- deleting all recordings without a icon/ranking
- deleting all recordings




### Important

- Once deleted, shots are no longer retrievable.


## DELETING INDIVIDUAL RECORDINGS

- ▶ Press the **MENU** button
- ▶ Select **Delete** in the play menu.
  - The Delete screen appears.



- ▶ Select the Delete icon  (tap the icon directly or press the **FN** button)
  - The LED will flash during the delete process. The process may take a few seconds.
  - The next image will be displayed once deletion is complete. The following message appears if no other recordings are saved on the card: **No valid picture to play.**

### Canceling a deletion and return to the normal playback mode

- ▶ Select the “Go back” icon  (tap the icon directly or press the **PLAY** button)

### Notes

- The Delete screen can not be called up when in overview mode, because the menu function **Delete** of the play menu is not available in this context.
- With the Delete screen active, you can still browse between stored recordings.



## DELETING MULTIPLE RECORDINGS

Several recordings can be marked in a Delete overview with twelve thumbnails and can then be deleted all at once. This overview can be reached in two ways.

- ▶ Turn the front dial in anti-clockwise direction
  - The overview screen appears.
- ▶ Press the **MENU** button
- ▶ Select **Delete Multi** in the play menu
  - The Delete overview appears.

or

- ▶ Press the **MENU** button
- ▶ Select **Delete** in the play menu
  - The Delete screen appears.
- ▶ Turn the front dial in anti-clockwise direction
  - The Delete overview appears.




Any number of recordings can be selected in this view.


### Selecting recordings for deletion

- ▶ Select a image
- ▶ Press the joystick/thumbwheel


or

- ▶ Tap the desired image
  - The recordings selected for deletion are marked with a red Delete icon .

### Deleting the selected recordings

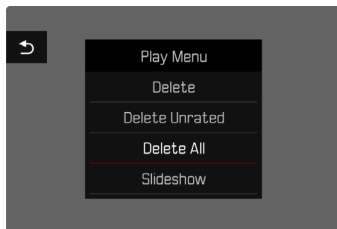
- ▶ Select the Delete icon   
(tap the icon directly or press the **FN** button)
  - The prompt **Do you want to delete all marked files?** appears.
- ▶ Select **Yes**

### Canceling a deletion and return to the normal playback mode

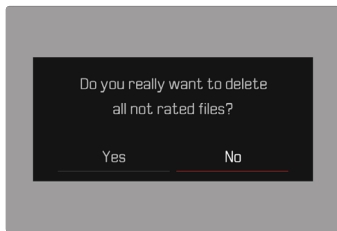
- ▶ Select the “Go back” icon   
(tap the icon directly or press the **PLAY** button)

## DELETING ALL RECORDINGS

- ▶ Press the **MENU** button
- ▶ Select **Delete All** in the play menu



- The prompt **Do you want to delete all files?** appears.



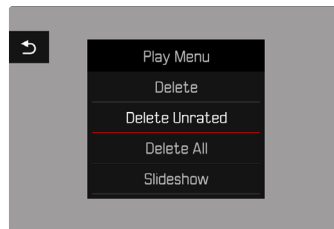
- ▶ Select **Yes**

### Note

- The message **No valid picture to play** appears after successful deletion. The same shot is displayed again if deletion was unsuccessful. When deleting several or all recordings, a notification screen may appear for the time needed to process the data.

## DELETING UNRATED RECORDINGS

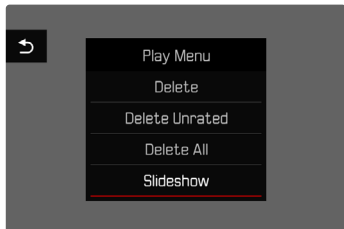
- ▶ Press the **MENU** button
- ▶ Select **Delete Unrated** in the play menu



- The prompt **Do you really want to delete all not rated files?** appears.
- ▶ Select **Yes**
- The LED will flash during the deletion process. The process may take a few seconds. The next marked image appears once deletion is complete. The message **No valid picture to play** appears if no other recordings are saved on the card.

## SLIDE SHOW

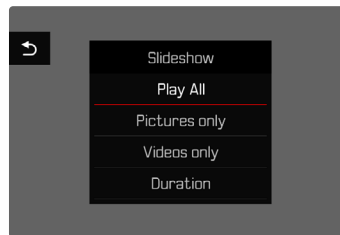
A slide show function is available in playback mode, in which the saved images are shown automatically in series. Choose to see all images (**Play All**), only photos (**Pictures Only**) or only videos (**Videos Only**) should be displayed. For photos, select how long each image should be displayed (**Duration**).



### SETTING THE DURATION

- ▶ Press the **MENU** button
- ▶ Select **Slideshow** in the play menu
- ▶ Select **Duration**
- ▶ Select the desired duration (**1 s**, **2 s**, **3 s**, **5 s**)

## STARTING THE SLIDE SHOW



- ▶ Press the **MENU** button
- ▶ Select **Slideshow** in the play menu
- ▶ Select the desired setting (**Play All**, **Pictures only**, **Videos only**)
  - The slide show will start automatically with the selected images and runs in an endless loop until it is exited.

### ENDING THE SLIDE SHOW

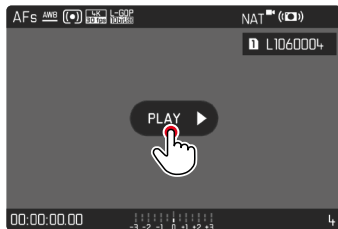
- ▶ Press the **PLAY** button
- or
- ▶ Tap the shutter button
    - The camera switches to the relevant mode.

### Notes

- An intermediate screen may appear while the data is prepared for playback.
- The settings in **Duration** remain intact even after the camera is switched off and on again.

## VIDEO PLAYBACK

**PLAY ▶** appears on screen if you have selected a video file in playback mode.



## START PLAYBACK

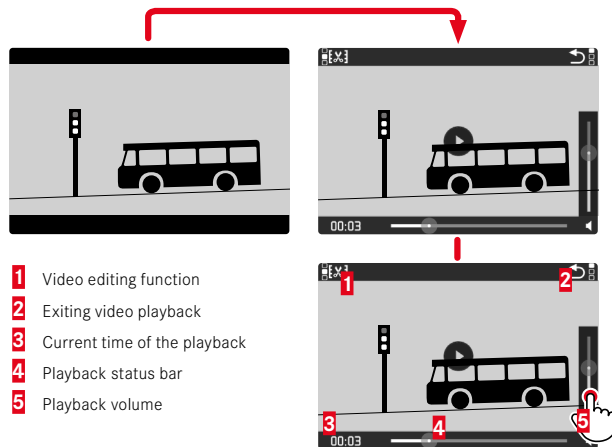
- ▶ Press the joystick/thumbwheel
- or
- ▶ Tap **PLAY ▶**

## ACCESSING THE CONTROL ELEMENTS

The control elements are displayed when playback is stopped.

### Using touch control

- ▶ Tap anywhere on the LCD panel



### Using button control

- ▶ Press the joystick/thumbwheel

### Note

- The control elements disappear after about 3 s. Tapping the LCD panel again or pressing a button will make them reappear.



## PAUSE PLAYBACK

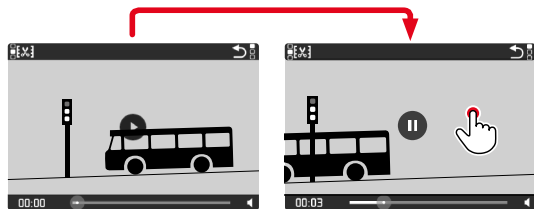
- ▶ Tap anywhere on the LCD panel  
or
- ▶ Press the joystick/thumbwheel

## RESUMING PLAYBACK

### Using touch control

While the control elements are visible:

- ▶ Tap anywhere on the LCD panel



### Using button control

While the control elements are visible:

- ▶ Press the joystick/thumbwheel

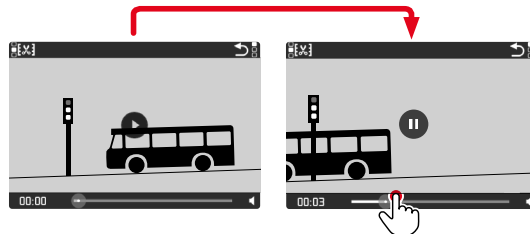
## NAVIGATE TO ANY POINT IN THE FILE

### QUICK JUMP

#### Using touch control

While the control elements are visible:

- ▶ Tap the Playback status bar at the desired position



#### Using button control

- ▶ Press and hold the joystick left/right

### PRECISE SELECTION

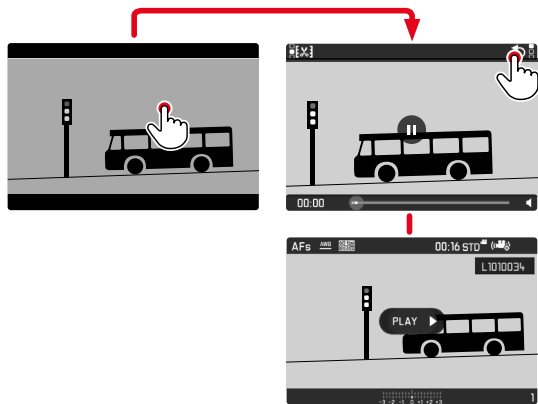
- ▶ Turn the thumbwheel

## END PLAYBACK

### Using touch control

While the control elements are visible:

- ▶ Tap the “Go back” icon ↶



### Using button control

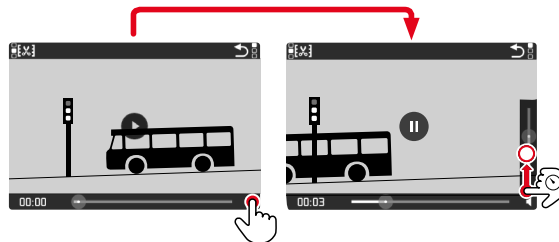
- ▶ Press the **PLAY** button

## SETTING THE VOLUME

### Using touch control

While the control elements are visible:


- ▶ Tap the volume icon
- ▶ Tap the volume bar at the desired position



### Using button control

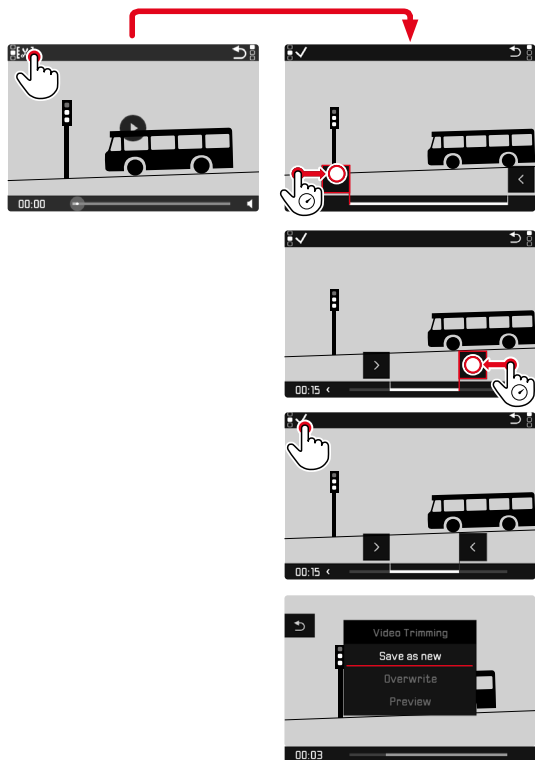
- ▶ Press the joystick up/down
  - The volume status bar appears.
- ▶ Press the joystick up (louder) or down (quieter)

### Note

- Sound is switched off at the lowest part of the bar and the volume icon changes to .

## VIDEO EDITING

### Using touch control



### Using button control

#### ACCESSING THE VIDEO EDITING FUNCTION

- ▶ Press the **FN** button
  - The video editing screen appears, the left cutting mark is highlighted in red (= active).

#### CHANGING THE CURRENT CUTTING POINT

- ▶ Press the joystick left/right
  - The selected cutting point is highlighted in red (= active).

#### MOVING THE ACTIVE CUTTING POINT

- ▶ Turn the thumbwheel
  - The currently selected time of the relevant cutting point is displayed at the bottom left of the footer line. A still of the video sequence at that point is displayed in the background.





## CUTTING

- ▶ Press the **FN** button to confirm the cuts
  - The **Video Trimming** menu appears.
- ▶ Select a function from the **Video Trimming** menu  
(**Save as new**, **Overwrite**, **Preview**)

<b>Save as new</b>	The new video is <b>additionally</b> saved, the original video remains unchanged.
<b>Overwrite</b>	The newly cut video is saved and the original one is deleted.
<b>Preview</b>	The new video is played. The newly cut video is not saved and the original remains unchanged.

## CANCELLING THE VIDEO EDITING FUNCTION

The editing function can be canceled at any time, provided no selection was made in the **Video Trimming** menu.

- ▶ Press the **PLAY** button
  - The video playback screen reappears.

### Notes

- In all three cases, a notification screen appears while the data is being processed. Then the new video is played back.
- The numbering of existing recordings will not be changed when **Save as new** is selected. The newly created video will be added to the end of the series of videos.



## OTHER FUNCTIONS

The settings described in this chapter apply for photo and video mode alike. They are therefore available in the picture and video menu (see chapter “Camera Operation” under “Menu Control”). A setting selected in one of the modes will also apply to the other.

## RESETTING THE CAMERA TO FACTORY SETTINGS

This function allows you to reset all your custom menu settings back to the factory settings. You can optionally exclude the user profiles, Wi-Fi and Bluetooth settings, as well as the image numbering from the reset individually.

- ▶ Select **Reset Camera** in the main menu
  - The prompt **Reset Camera Settings?** appears.
- ▶ Confirm or reject the reset to factory settings **(Yes)** / **(No)**
  - Selecting **No** will cancel the reset and the display will return to the main menu. Selecting **Yes** will trigger additional prompts regarding the settings you can opt to keep.
- ▶ Confirm or reject the reset of the user profiles **(Yes)** / **(No)**
- ▶ Confirm or reject the reset of the Wi-Fi and Bluetooth settings **(Yes)** / **(No)**
- ▶ Confirm or reject the reset of the image numbering **(Yes)** / **(No)**
- ▶ Confirm or reject the reset of the LUT profiles **(Yes)** / **(No)**
  - The message **Please Restart the Camera** appears.
- ▶ Switch the camera off and on again

### Notes

- Date & time, as well as the preferred language will have to be set up again after a reset. Relevant prompts will appear on screen.
- You reset the image file numbering separately via the menu item **Reset Image Numbering** (see p. 258).

## FIRMWARE UPDATES

Leica is continuously working on the further improvement and optimization of your camera. Since many camera functions are entirely controlled by software, some of these improvements and additions to the functional scope can be installed in retrospect. Leica offers firmware updates at irregular intervals, which you can download from our website.

Leica will notify you of any new updates, once you have registered your camera. Users of Leica FOTOS will also be automatically notified about firmware updates for their Leica cameras.

### Finding the currently installed firmware version

- ▶ Select **Camera Information** in the main menu
  - The current firmware versions are displayed.



More information about registering, firmware updates and how to download them to your camera, as well as any amendments and additions to this manual can be found in the customer area of our website at:

<https://club.leica-camera.com>





## EXECUTING A FIRMWARE UPDATE

Any interruption of a running firmware update may cause serious and irreparable damage to your equipment!

You will therefore have to take particular note of the following, when carrying out a firmware update:

- Do not switch off the camera!
- Do not remove the memory card!
- Do not remove the rechargeable battery!
- Do not remove the lens!

### Notes

- A warning message will appear if the battery is insufficiently charged. Recharge the battery and then repeat the process described above.
- You will find additional device and country-specific registration marks and numbers in the [Camera Information](#) submenu.

## PREPARATION

- ▶ Fully charge and insert the rechargeable battery
- ▶ The second SD memory card (where applicable) must be removed from the camera
- ▶ Any stored firmware files on the memory card must be removed
  - We recommend saving any images on the memory card and reformatting it before the update.  
(Caution: Loss of data! All data stored on the memory card will be lost during formatting.)
- ▶ Download the latest firmware version
- ▶ Save the download to the memory card
  - The firmware file must be stored in the main directory of the memory card (not in a sub-directory).
- ▶ Insert the memory card into the camera
- ▶ Switch the camera on



## UPDATING THE CAMERA FIRMWARE

- ▶ Preparation
- ▶ Select **Camera Information** in the main menu
- ▶ Select **Camera Firmware Version**
- ▶ Select **Start Update**
  - A prompt with information about the camera is displayed.
- ▶ Check the version information
- ▶ Select **Yes**
  - The prompt **Save profiles on SD Card?** appears.
- ▶ Select **Yes/No**
  - The update will start automatically.
  - The lower status LED will flash during this process.
  - Once the process has completed successfully, a relevant on-screen message and prompt to restart the device will appear on screen.
- ▶ Switch the camera off and on again

### Note

- Date & time, as well as the preferred language will have to be set up again after the restart. Relevant prompts will appear on screen.

## UPDATING THE LENS FIRMWARE

Where available, you can optionally carry out firmware updates for lenses. The instructions provided for camera firmware updates apply.

- ▶ Preparation
- ▶ Select **Camera Information** in the main menu
- ▶ Select **Lens Firmware Version**
- ▶ Select **Start Update**
  - A prompt with information about the camera is displayed.
- ▶ Check the version information
- ▶ Select **Yes**
  - The update will start automatically.
  - The lower status LED will flash during this process.
  - Once the process has completed successfully, a relevant on-screen message and prompt to restart the device will appear on screen.
- ▶ Switch the camera off and on again



## UPDATING THE ADAPTER FIRMWARE

Where available, you can optionally carry out firmware updates for adapters. The instructions provided for camera firmware updates apply.

- ▶ Preparation
- ▶ Select **Camera Information** in the main menu
- ▶ Select **Lens Firmware Version**
- ▶ Select **Start Update**
  - A prompt with information about the camera is displayed.
- ▶ Check the version information
- ▶ Select **Yes**
  - The update will start automatically.
  - The lower status LED will flash during this process.
  - Once the process has completed successfully, a relevant on-screen message and prompt to restart the device will appear on screen.
- ▶ Switch the camera off and on again

### Note

- The relevant menu item will only be visible if an adapter is mounted and active.





## LEICA FOTOS

The camera can be controlled remotely using a smartphone/tablet PC. This will require an installation of the Leica FOTOS app on the mobile device. Leica FOTOS furthermore offers a variety of other useful functions:

- Geotagging for images
- File transfer

- ▶ Scan the following QR code with the mobile device



or

- ▶ The app is available from Apple App Store™/Google Play Store™

## CONNECTING

### FIRST-TIME CONNECTION TO A MOBILE DEVICE

The connection is established via Bluetooth. A pairing of the camera and the mobile device is required for a first-time connection to a mobile device.

### CONNECTION WIZARD

The connection wizard appears at initial startup of the camera or after a camera reset. These settings are also available via the menu item [Leica FOTOS](#).







## USING THE MENU TO

### ON THE MOBILE DEVICE

- ▶ Activate Bluetooth
- ▶ Launch the Leica FOTOS app
- ▶ Select the camera model

### IN THE CAMERA

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Bluetooth**
  - Bluetooth is activated.
- ▶ Follow the Leica FOTOS instructions
  - The icons “Bluetooth” and “GPS” appear on the LCD panel once a connection is established.

### Notes

- The pairing process may take a few minutes to complete.
- Each mobile device only needs to be paired with the camera once. The process adds the device to the list of known devices.
- GPS data will be automatically determined and written to the Exif data when pictures are taken while the camera is connected to the Leica FOTOS app.

## CONNECTING WITH PAIRED DEVICES

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Bluetooth**
- ▶ Select **On**
  - Activate the Bluetooth function.
  - The camera connects to the mobile device automatically.

### Notes

- Should there be more than one known device in the vicinity of the camera, then it will automatically connect to the first device responding. A favorite mobile device cannot be specified.
- Disconnect and reconnect if the wrong device was connected.



## DISABLING WI-FI

### DISABLING WLAN AUTOMATICALLY (Sleep mode)

The factory settings provide that the Wi-Fi via the camera is disabled after a short period of inactivity to save power. The timing of the automatic disconnect can be adjusted manually. Camera access will then be available at any time during the selected time span.

Factory setting: **After 5 min**

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Wi-Fi Sleep Mode**
- ▶ Select the desired setting
  - **After 5 min**: Shut-down after 5 mins of inactivity
  - **Tomorrow**: no auto power saving today
  - **Never**: Wi-Fi remains active permanently

### DISABLING WLAN MANUALLY

It is recommended to disable WLAN on the camera, once a connection to a mobile device is no longer needed.

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Bluetooth**
- ▶ Select **Off**

## REMOVING PAIRED DEVICES FROM THE LIST

We recommend removing rarely used devices from the list of known devices to prevent unwanted connections.

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Delete**
- ▶ Select the relevant device
  - A security prompt appears on the LCD panel.
- ▶ Select **Yes**

### Note

- The pairing process will have to be repeated to reconnect a deleted device to the camera.

## FIND THE MAC ADDRESS

You can find the MAC address of the Leica SL2-S in the camera menu.

- ▶ Select **Camera Information** in the main menu

## REMOTE CAMERA CONTROL

You can take pictures and record video remotely via the mobile device, and can also change image settings or transfer data to the mobile device. A list of available functions and instructions for their use can be found in the Leica FOTOS app.

### REMOTE CAMERA ACTIVATION

The camera can be activated remotely from off or standby if this function is activated in the camera. The Bluetooth function must be active.

- ▶ Select **Leica FOTOS** in the main menu
- ▶ Select **Remote Wakeup**
- ▶ Select **On**
  - The camera will scan for known devices and automatically establishes a connection.

### Important information

- Remote activation will activate the camera even if it was switched off via the main switch.
- Accidental remote camera activation may result in unwanted pictures taken and excessive power consumption.
- A third-party device can – provided it has been paired with the camera – access the camera remotely if your own mobile device is not currently connected or its Bluetooth function is deactivated. This poses a danger of unauthorized access to your data or camera functions.

### Solution

- Only activate this function just before you want to use it.
- Disable the function as soon as it is no longer needed.



## CARE/STORAGE

We recommend the following if the camera will not be used for an extended period of time:

- Switch off the camera
- Remove the memory card
- Remove the battery (after approx. 2 months the set date and time will be lost)

## CAMERA HOUSING

- Keep your equipment meticulously clean, as any kind of dirt residue presents a breeding ground for micro organisms.
- Only clean the camera with a soft, dry cloth. Stubborn dirt should first be moistened with a watered-down detergent and can then be wiped away with a dry cloth.
- Wet a soft cloth with tap water, wring it out thoroughly and use it to wipe down the camera. Then wipe it down thoroughly with a dry cloth.
- Wipe the camera with a clean, lint-free cloth to remove stains and fingerprints. Tougher dirt is hard to reach corners of the camera housing can be removed with a small brush. Take care not to touch the shutter blades.
- Store the camera in a closed and padded container to prevent friction damage and protect it against dust accumulation.
- Keep the camera in a dry, sufficiently ventilated place, where it will not be subjected to high temperatures and humidity. Make sure to remove all moisture from the camera if it was used in humid conditions.
- Do not store the camera in a leather case for extended periods of time to prevent fungal contamination.

- Empty your camera bag completely if it ever gets wet during use. Your equipment might otherwise be subjected to moisture and tanning residue released by the moist leather.
- All mechanical bearings and sliding surfaces on your camera are lubricated. Remember to press the shutter button several times every three months to prevent the lubrication points hardening if the camera will not be used for an extended period of time. We also recommend repeated adjustment and use of all the other operating elements.
- When using your camera in tropical climates, make sure to expose the equipment to sunlight and fresh air as much as possible to prevent fungal growth. Storage in airtight containers or cases is recommended only in conjunction with a desiccant like silica gel.

## LENS

- A soft-bristle brush will usually suffice to remove dust from the outer lenses. Remove more severe soiling with a clean, soft cloth that is completely free of foreign matter. Wipe the lens in a circular motion from the center outward. We recommend using micro-fiber cloths that come in a protective container and are available from photography shops and other optical retailers. These cloths are machine-washable at 40°C. Do not use fabric softener and do not iron them. Never use spectacle lens cleaning cloths, as these are soaked in chemicals, which could damage the glass of the camera lenses.
- Attach a transparent UVA filter for optimal front lens protection in unfavorable conditions (e.g. sand, salt water spray). Please remember that the filter may create unwanted light reflections in some backlight situations and in case of high contrasts.
- Lens caps also protect the lens against accidental fingerprint smudges and rain.

- All mechanical bearings and sliding surfaces on your lens are lubricated. Make sure to periodically move the focus ring and the aperture ring to prevent seizing if the lens will not be used for an extended period of time.

## VIEWFINDER/LCD PANEL

- Switch off your camera and leave it to stand at room temperature for around 1 hour if condensation has formed on or in the camera. The condensation will disappear, once the camera temperature has reached room temperature.

## RECHARGEABLE BATTERY

- Lithium-ion rechargeable batteries should only be stored partially charged, i.e. not fully depleted or fully charged. The camera LCD panel will show the current charge level of the battery. Charge the battery twice a year for around 15 minutes to avoid deep discharge in case of very long storage periods.

## MEMORY CARDS

- Make sure to store memory cards in their anti-static container when not in use.
- Do not store memory cards where they will be exposed to high temperatures, direct sunlight, magnetic fields or static electricity. Always remove the memory card if the camera will not be used for an extended period of time.
- We recommend formatting the memory card from time to time, because fragmented residual data from deleted files may block some of its storage capacity.

## SENSOR

### PIXEL MAPPING

Defective pixels may appear on the image sensor of digital cameras over time. The camera compensates for these defective pixels automatically by calculating the data captured by other pixels surrounding defective ones. This feature requires a process known as “pixel mapping” to recognize and register defective pixels. The camera does this automatically every two weeks. The function can also be accessed manually if needed.

- ▶ Select **Camera Settings** in the main menu
- ▶ Select **Pixel Mapping**
- ▶ Select **Yes**
  - Pixel mapping is executed. The process may take a few seconds.
  - The message **Please Restart the Camera** appears.
- ▶ Switch the camera off and on again

Problem	Possible cause to be verified	Troubleshooting suggestions
<b>Battery issues</b>		
Battery is depleted too quickly	Battery too cold	Warm the battery (e.g. in pants pocket) and only insert directly before use
	Battery too hot	Allow battery to cool down
	LCD panel or EVF set too bright	Reduce brightness
	Power save mode deactivated	Activate <a href="#">Auto Power Off</a>
	AF mode permanently activated	Select other mode
	Permanent WLAN connection	Deactivate WLAN when not in use
	Continuous use of LCD panel (e.g. in Live View mode)	Deactivate the function
	Battery has been recharged too many times	The battery has reached the end of its operating time Replace battery
	Third-party lens with high power consumption connected	Change battery, use handgrip, use external power supply via USB
Tracking-AF with AFc activated	Use AFs or MF	
Preview of the recorded images ( <a href="#">Auto Review</a> ) activated	Deactivate the function	
Charging process not starting	Incorrect battery polarization or faulty charger connection	Check polarization and connection
Charging takes too long	Battery too hot or too cold	Charge the battery at room temperature
Charging pilot light is on, but battery isn't charging	The battery contacts are dirty	Clean the contacts with a soft, dry cloth
	Battery has been recharged too many times	The battery has reached the end of its operating time Replace battery
Battery not charging via USB	The battery can only be charged via USB when the camera is off	Switch off the camera
<b>Camera problems</b>		
The camera suddenly switches itself off	Battery is depleted	Charge or replace the battery
The camera won't switch on	Battery is depleted	Charge or replace the battery
	Battery too cold	Warming the battery (e.g. in pants pocket)
The camera switches off again immediately after it is switched on	Battery is depleted	Charge or replace the battery
Camera is heating up	Heat development due to high-res video shooting (4K) or continuous shooting with DNG	Not a fault; allow camera to cool down if it gets too hot

Camera does not recognize the memory card	The memory card is not compatible or defective	Replace the memory card
	Memory card is incorrectly formatted	Format the memory card in the camera (Caution: Loss of data!)
<b>Menus and displays</b>		
Electronic viewfinder is dark	EVF brightness is set too low	Set the EVF brightness
Display language is not English	-	Select <b>English</b> in the <b>Language</b> menu
Electronic viewfinder is dark	Switchover between EVF and LCD incorrectly set	Select a suitable setting
Viewfinder is out of focus		Check the diopter setting and adjust as needed
The LCD panel is too dark or too bright/not clear	The brightness setting is incorrect	Adjust the display brightness
	Viewing angle is too small	View the LCD panel at a perpendicular angle
	Brightness sensor is blocked	Make sure that the brightness sensor is not blocked
<b>Favorites</b> menu does not appear	The favorites menu is empty	Add at least one function
Live View stops suddenly or doesn't start	The camera is hot due to high ambient temperature, extended Live View operation, extended video shooting or continuous shooting	Allow camera to cool down
The brightness in Live View mode is not the same as in the pictures	The brightness settings for the LCD panel have no influence over the exposures	Adjust the brightness settings as needed
	Exposure preview is deactivated	Activate the function
The number of remaining shots does not count down after a picture is taken	The image requires only very little memory space	This is not a fault; the number of remaining shots is calculated as approximations
<b>Shooting</b>		
Image noise appears on the LCD panel/in the viewfinder when the shutter button is pressed to the first pressure point	The gain is increased to aid image composition if the object is insufficiently lit with reduced aperture opening	Not a fault - picture quality will not be impacted
LCD panel/viewfinder deactivates after a very short time	Power Save settings are activated	Change the settings as needed
The display switches off after the picture is taken/the LCD panel goes dark after the picture is taken	Flash loads after picture is taken, LCD panel deactivates during load time	Wait until the flash is loaded
Flash won't fire	The flash cannot be used with the current settings	Refer to the list of flash function-compatible settings
	Battery is depleted	Charge or replace the battery
	Pressing the shutter button while flash is still loading	Wait until the flash is loaded
	Electronic shutter function is selected	Change the setting
	Automatic bracketing or continuous shooting is activated	Change the setting

The flash does not fully illuminate the object	Object is outside the flash range	Move object into flash range
	Flash is covered	Make sure the flash unit is not covered by your finger or some object
The camera won't take a picture/shutter button is deactivated	Memory card is full	Replace the memory card
	The memory card is not formatted	Reformat the memory card (Caution: Loss of data!)
	The memory card is write protected	Deactivate the write protection on the memory card (small lever on the side of the memory card)
	Dirt on the memory card contacts	Clean the contacts with a soft cotton or linen cloth
	The memory card is damaged	Replace the memory card
	The sensor is overheating	Allow camera to cool down
	The camera has switched off automatically (Auto Power Off)	Switch the camera on again deactivate auto shutdown as needed
	Image data is being written to the memory card and the cache is full	Wait
	Noise reduction function is working (e.g. after night photography with long exposure times)	Wait or deactivate noise reduction
	Battery is depleted	Charge or replace the battery
	Camera is processing a picture	Wait
Image numbering has reached its limit	See section "Data Management"	
Image does not sharpen automatically	AF is deactivated	Activate AF
No face detection/faces are not recognized	Face is covered (sunglasses, hat, long hair, etc.)	Remove distracting objects
	Face takes up too little space in the picture composition	Change image composition
	Face is tilted or horizontal	Keep face straight
	Camera not held straight	Hold camera straight
	Face is insufficiently lit	Use flash, improve illumination
Camera selects incorrect object	The incorrectly selected object is closer to the image center than the main object	Change the image section or take picture using the focus lock
	The incorrectly selected object is a face	Deactivate face detection
No continuous shooting available	The camera is overheated and the function was temporarily disabled to protect the camera	Allow camera to cool down
The image on the LCD panel displays lots of noise	Light enhancement function of the LCD panel in dark surroundings	Not a fault - picture quality will not be impacted



Image storage takes a long time	Noise Suppression is activated for long-term exposures	Deactivate the function
	The memory card inserted is slow	Use a suitable memory card
Manual white balance is unavailable	The image object is too bright or too dark	
Camera does not focus	Desired object part is too close to the camera	Select Macro mode
	Desired object part is very far away	Exit Macro mode
	Object not suitable for AF	Use Focus lock or select manual focus
AF metering field is framed in red with activated AF; images out of focus	Focusing was unsuccessful	Try to focus again
No AF metering field selectable	Focus ring not in AF position	Turn the focus ring to the AF position
	Automatic Metering Field Control or Face Detection in AF Mode is selected	Select other control mode
	Image Review is activated	Deactivate Image Review
	Camera is in Standby mode	Press the shutter button to the first pressure point
AF assist lamp does not light up	Camera is in video shooting mode	Change the mode
	Function is deactivated	Activate AF
MF Setup is grayed out	The mounted lens does not support this setting	Use another lens
Focus Limit (Macro) is grayed out in the camera settings	The mounted lens does not support this setting	Use another lens
Lens Profiles is grayed out in the camera settings	No M-adapter L or R-adapter L attached	This menu is available only for Leica M and Leica R lenses
Multi-Shot is grayed out	Use an APS-C lens	Use another lens
	Shutter Type is set to Mechanical	Set the Shutter Type to Electronic or Hybrid
<b>Video recording</b>		
No video is recorded	The camera is overheated and the function was temporarily disabled to protect the camera	Allow camera to cool down
Video shooting stops	Maximum length of individual video sequence was reached	
	The memory card's write speed is too low for the selected video resolution/compression	Insert another memory card or change the storage method
L-Log is not selectable in video mode	A 10 bit format was not selected as the video format	Switch to 10 bit format for the video format
In video mode, I see ASA instead of ISO, angle instead shutter speed and T-aperture values instead of F-values	Cine was selected as shooting mode	Switch from Cine to Video mode
There are visible exposure jumps during zooming	The camera is set to Auto ISO	Switch to Floating ISO

**Review and photo management**

Selected images cannot be deleted	Some of the selected images are write protected	Remove write protection (using the device with which the file was originally set to write protected)
File numbering does not start at 1	The memory card contains previously stored images	See section "Data Management"
The time and date settings are incorrect or are not displayed	The camera has not been in use for an extended period of time (the battery was removed)	Insert a charged battery and configure the correct settings
The time and date stamp on images are incorrect	Time settings are incorrect	Set the time correctly Caution: Time settings will be lost if the camera is not used/remains in storage with a depleted battery over an extended period of time
The time and date stamp on images are unwanted	Setting was ignored	Cannot be removed in retrospect Deactivate the function as needed
Pictures/recordings are damaged or missing	The memory card was removed while the readiness indicator was flashing	Never remove the memory card while the readiness indicator is flashing. Charge the battery.
	The memory card formatting is faulty or the card is damaged	Reformat the memory card (Caution: Loss of data!)
The most recent image is not displayed on the LCD panel	Preview is deactivated	Activate <b>Preview</b>
Parts of my video scenes are not fully in the picture	Difference of aspect ratios between camera and playback medium	Set the correct aspect ratio on the camera

**Picture quality**

The picture is too bright	Light sensor was covered while picture was taken	Make sure that the light sensor is not obstructed
Image noise	Long exposure times (> 1 s)	Activate the noise suppression function for long exposure times
	ISO sensitivity set too high	Decrease ISO sensitivity
Unnatural colors	White balance not or incorrectly set	Adjust white balance to light source or adjust manually
Round white stains, similar to soap bubbles	Taking flash photography shots in a very dark environment: reflections of dust particles	Deactivate the flash
Images are out of focus	Lens is dirty	Clean the lens
	Lens is obstructed	Make sure that lens is unobstructed
	Camera moved during shooting	Use flash
		Mount the camera on a tripod
		Use faster shutter speeds
Macro Function	Select the appropriate mode	

Images are overexposed	Flash is activated in bright surroundings	Change the flash mode
	Strong light source in the image	Avoid strong light sources in the image
	(Half) backlight falling into the lens (also from light sources outside the image range)	Use the lens hood or change to another object
	Selected exposure time is too long	Select a shorter exposure time
Out of focus/picture stabilizer not functioning	Shooting at a dark location without flash	Use a tripod
The image is grainy or there is image noise	ISO sensitivity set too high	Decrease ISO sensitivity
Horizontal stripes	Picture was taken with electronic shutter under a light source like a fluorescent lamp	Try shorter shutter speeds
Unnatural colors and brightness	Picture taken in artificial light or extreme brightness	Set white balance or select correct lighting presets
No images are displayed	No memory card inserted	Insert a memory card
	The images were taken with another camera	Transfer the shots to another device to view them
Images cannot be displayed	File name of the image was changed on a PC	Use appropriate software for image transfers from a PC to the camera
<b>Video quality</b>		
Video recordings show flickering/stripes	Light source interference in artificial lighting	Select a different frame rate (suitable for the local Alternating current (AC) grid frequency) under <b>Video Resolution</b>
Camera noise in video recording	The setting wheels were used	Avoid using the setting wheels during video shootings
No sound on video recording	Playback volume is set too low	Increase playback volume
	Microphone was covered during shooting	Make sure the microphone is not obstructed while shooting video
	Speakers are covered	Make sure that speakers are unobstructed during playback
Flickering or horizontal stripes in the video recording	Microphone was deactivated while recording	Activate the microphone
	CMOS sensors will display this phenomenon when light sources like LED lamps or fluorescent tubes are used	Quality may be improved by selecting a manual shutter speed (e.g. 1/100s)
<b>Smartphones/WLAN</b>		
WLAN connection gets interrupted	Camera deactivates when it overheats (safety feature)	Allow camera to cool down
Cannot pair with a mobile device	The camera was already paired with the mobile device	Delete the camera registration from the Bluetooth settings in the mobile device and repeat pairing process



Mobile device connection/image transfer not working	The mobile device is too far away	Bring the devices closer to each other
	Interference from other devices in the vicinity, e.g. other smartphones or a microwave oven	Increase distance to interfering devices
	Interference from multiple mobile devices in the vicinity	Re-establish the connection/disconnect other mobile devices
	Mobile device is currently connected to another device	Check connection
Camera does not appear on the WLAN configuration screen of the mobile device	Mobile device does not recognize camera	Switch the WLAN function of the mobile device off and on again



## MENU OVERVIEW

## DIRECT ACCESS

Function	PHOTO			VIDEO/CINE			Page
	Status screen	Favorites	Function buttons	Status screen	Favorites	Function buttons	
Photo - Video	◆		● ● (4)	◆		● ● (4)	210
Toggle Info Levels			● ● (25)			● ● (25)	104, 197
Magnification			● ● (9)			●	121, 124, 219
Toggle Focus Point			●				122
Exposure/DOF Simulation			●				145
Focus Peaking			●				107, 123, 200, 221
Clipping / Zebra			●				106, 199
Toggle Video Gamma						●	183
Toggle AF/MF			●			●	
Audio Levels (Microphone Gain + headphone volume)				◆		● ● (9)	54, 72, 181
Drive Mode	◆	★	●				112
Interval Shooting		★	●				147
Exposure Bracketing		★	●				149

◆ = Accessible via the status screen

★ = Available for the favorites menu

● = Available for function buttons

● = Factory setting on the function buttons

Function	PHOTO			VIDEO/CINE			Page
	Status screen	Favorites	Function buttons	Status screen	Favorites	Function buttons	
Self-timer			●				152
Multi-Shot			●				150
Focusing		★	●		★	●	113–126, 213–229
Focus Mode	◆	★	●	◆	★	●	113, 213, 223–228
AF Mode	◆	★	●	◆	★	●	75, 114, 120, 214, 219
AF Profiles	◆						117
Focus Aid		★	●		★	●	107, 124, 200, 221
AF Setup			●			●	116–119, 216–217
MF Setup			●			●	103, 195
Exposure Metering	◆	★	●	◆	★	●	134, 236
Exposure Compensation	◆	★	●	◆	★	●	144, 241
ISO (Photo & Video)*	◆	★	●	◆	★	●	72, 127–129, 229–232
Exposure Index (Cine)*							
Auto ISO Settings		★	●		★	●	127–128, 230



Function	PHOTO			VIDEO/CINE			Page
	Status screen	Favorites	Function buttons	Status screen	Favorites	Function buttons	
White Balance	◆	★	●	◆	★	●	129–132, 232–235
Gray card		★	●		★	●	131, 234
Photo File Format	◆	★	●				89
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JPG Resolution	◆	★	●				90
Film Style		★	●				91
iDR		★	●				95
Auto Review			●				173
Long exposure noise reduction			●				93
Shutter Type		★	●				133
Flash Settings		★	●				155–159
Flash Exp. Compensation		★	●				159
Live View Settings							110
Exposure Preview			●				141
Enhanced Live View			●				110
Sensor Format			●			●	88, 90, 176
Photo Aspect Ratio			●				90
Storage Options			●				96



Function	PHOTO			VIDEO/CINE			Page
	Status screen	Favorites	Function buttons	Status screen	Favorites	Function buttons	
Image Overlay			●				153
Video Format / Resolution			●	◆	★	●	177, 178
Video Settings							
LUT Profile						●	183–188
Video Gamma						●	183–188
Timecode						●	182
Segmented Video					★	●	190
Color Bar						●	202
REC Frame						●	204
iDR					★	●	189
Video Style					★	●	179
Video Aspect Ratio						●	207
Waveform Monitor						●	205
User Profile	◆	★	●	◆	★	●	76–78
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Joystick Lock		★	●		★	●	76
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EVF-LCD		★	●		★	●	83

(20)

(20)



Function	PHOTO			VIDEO/CINE			Page
	Status screen	Favorites	Function buttons	Status screen	Favorites	Function buttons	
Leica FOTOS	◆			◆			264–267
Image Stabilization		★	●		★	●	94, 188
Camera Settings							36, 40, 80–82, 98–100, 102–105, 110, 119, 192–195, 197–199, 208, 218, 269
Touch AF			●			●	102
Touch AF in EVF			●			●	102
Focus Limit (Macro)			●			●	119, 218
AF Assist Lamp			●				110
USB Charging			●			●	36
Acoustic Signal			●			●	85
Lens Profiles		★	●		★	●	40
EV Increment						●	103, 195
Format Card	◆	★	●		★	●	96, 190

\* Some function are available only via direct access. These are listed at the top of the table.



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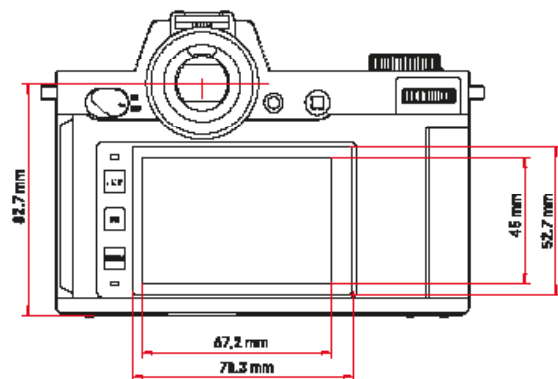
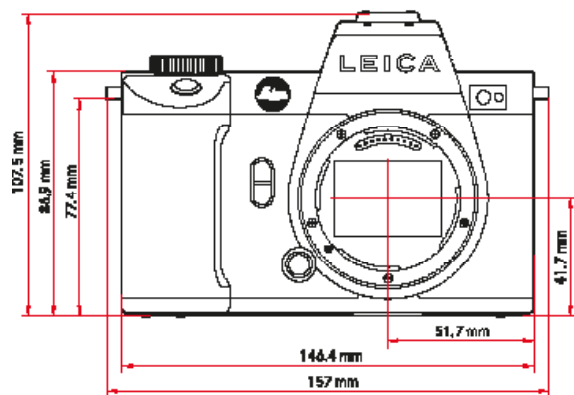
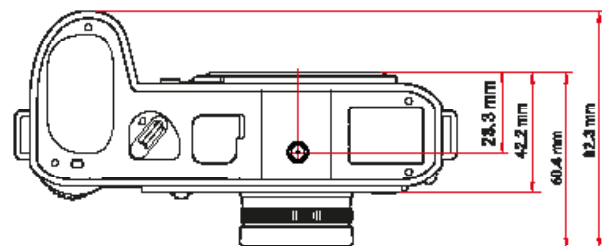
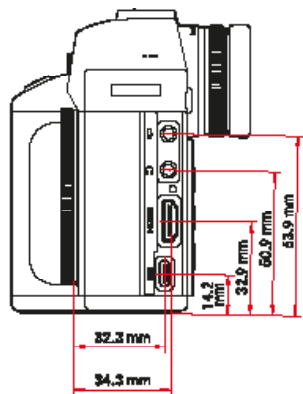
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**CAMERA****Designation**

Leica SL2-S

**Camera type**

Mirrorless full-frame system camera

**Type no.**

9584

**Order No.**

10880 EU/JP/US, 10881 ROW

**Buffer memory**

4 GB

DNG™: &gt; 999 shots

JPG: &gt; 999 shots

**Storage medium**

UHS-II (recommended), UHS-I, SD/SDHC/SDXC memory card

**Material**

Full-metal housing made of aluminum and magnesium, leatherette cover, splash-water protected in compliance 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, HDMI jack 2.0b Type A, USB 3.1 Gen1 Type C, Audio-Out 3.5 mm/Audio-In 3.5 mm, communication interface in the bottom cover for multifunction handgrip

**Tripod thread**

A 1/4 DIN 4503 (1/4") with stainless steel in the base

**Weight**

approx. 840 g (without battery), approx. 920 g (with battery)

**SENSOR****Sensor size**

CMOS sensor, pixel pitch: 5.94 µm

35 mm: 6072 x 4056 pixels (24.6 MP)

APS-C: 3984 x 2656 pixels (10.6 MP)

**Processor**

Leica Maestro series (Maestro III)

**Image stabilization**

5-Axis image stabilization up to 5.5 aperture levels

**Filter**

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

**File formats**

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

Video: RAW: 12 bit (via HDMI), MP4: H.265/MPEG-4 AVC (Audio format: 2ch 48 kHz/16 bit, AAC), MOV: H.264/MPEG-4 AVC (Audio format: 2ch 48 kHz/16 bit, LPCM)

**Image resolution**

35 mm	DNG™	6000 x 4000 pixels (24 MP)
	JPG	6000 x 4000 pixels (24 MP)
		4272 x 2848 pixels (12.2 MP) 2976 x 1984 pixels (5.9 MP)
APS-C	DNG™	3936 x 2624 pixels (10.3 MP)
	JPG	3936 x 2624 pixels (10.3 MP)
		2736 x 1824 pixels (5 MP) 1920 x 1280 pixels (2.5 MP)

**File size**

DNG™: approx. 44 MB

JPG: depending on resolution and image content

Video: max. length: unlimited, max. file size: 96 GB



## Color depth

DNG™: 14 bit, 12 bit with **Continuous - Very High Speed**

JPG: 8 bit

## Color space

Photo: sRGB

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

## Shooting Mode Video

Video mode: P - A - S - M

Cine mode: M

## Video Resolution

Sensor format	RESOLUTION	Sensor area
35mm - C4K (17:9)	4096x2160	6000x3168
35mm - 4K (16:9)	3840x2160	6000x3368
35mm - Full HD (16:9)	1920x1080	6000x3368
APS-C - RAW	4128x2176	4128x2176
APS-C - C4K (17:9)	4096x2160	4128x2176
APS-C - 4K (16:9)	3840x2160	3984x2240
APS-C - Full HD (16:9)	1920x1080	3984x2240

## Video frame rate / bit rate

RAW C4K (via HDMI)						
59.94fps	12bit (HDMI)	APS-C				
50fps	12bit (HDMI)	APS-C				
29.97fps	12bit (HDMI)	APS-C				
25fps	12bit (HDMI)	APS-C				
23.98fps	12bit (HDMI)	APS-C				
MOV C4K						
59.94fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
59.94fps	4:2:0 / 8bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	150Mbps
50fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
50fps	4:2:0 / 8bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	150Mbps
48fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
24fps						
47.95fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
23.98fps						
29.97fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	400Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
25fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	400Mbps

25fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
24fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	400Mbps
24fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
MOV 4K						
59.94fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
59.94fps	4:2:0 / 8bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	150Mbps
50fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.265	Long GOP	200Mbps
50fps	4:2:0 / 8bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	150Mbps
48fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	200Mbps
24fps						
47.95fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	APS-C	H.264	Long GOP	200Mbps
23.98fps						
29.97fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	400Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
25fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	400Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	150Mbps
MOV FHD						
119.88fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	35mm & APS-C	H.265	Long GOP	150Mbps
100fps	4:2:0 / 10bit (SD)	4:2:2 / 10bit (HDMI)	35mm & APS-C	H.265	Long GOP	150Mbps
59.94fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	200Mbps
50fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	200Mbps
29.97fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	200Mbps
25fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	200Mbps
23.98fps	4:2:2 / 10bit (SD & HDMI)		35mm & APS-C	H.264	ALL-I	200Mbps
MOV FHD Slow Motion						
180fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps
150fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps
120fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps
100fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps
MP4 4K						
59.94fps	4:2:0 / 8bit (SD & HDMI)		APS-C	H.264	Long GOP	150Mbps
59.94fps	4:2:0 / 10bit (SD & HDMI)		APS-C	H.265	Long GOP	100Mbps
50fps	4:2:0 / 8bit (SD & HDMI)		APS-C	H.264	Long GOP	150Mbps
50fps	4:2:0 / 10bit (SD & HDMI)		APS-C	H.265	Long GOP	100Mbps
29.97fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	100Mbps
25fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	100Mbps
23.98fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	100Mbps
MP4 FHD						
59.94fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	28Mbps
50fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	28Mbps
29.97fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps
25fps	4:2:0 / 8bit (SD & HDMI)		35mm & APS-C	H.264	Long GOP	20Mbps

23.98fps	4:2:0 / 8bit (SD & HDMI)	35mm & APS-C	H.264	Long GOP	24Mbps
MP4 FHD Slow Motion					
180fps	4:2:0 / 8bit (SD & HDMI)	35mm & APS-C	H.264	Long GOP	20Mbps
150fps	4:2:0 / 8bit (SD & HDMI)	35mm & APS-C	H.264	Long GOP	20Mbps
120fps	4:2:0 / 8bit (SD & HDMI)	35mm & APS-C	H.264	Long GOP	20Mbps
100fps	4:2:0 / 8bit (SD & HDMI)	35mm & APS-C	H.264	Long GOP	20Mbps

## Video Gamma

Rec. 709, L-Log Rec. 2020, HLG Rec. 2020

## VIEWFINDER/LCD PANEL

### Viewfinder (EVF)

Resolution: 5,760,000 dots, 120fps, magnification: 0.78x, aspect ratio: 4:3, frame coverage: 100%, exit pupil position: 21 mm, setting range +2/-4 dpt, with eye sensor for automatic switchover between viewfinder and LCD panel, time delay 0.005s

### LCD panel

3.2" (backlight LED) with anti-fingerprint and anti-scratch coating, 2,100,000 dots, format 3:2, touch control available

### 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/electronic shutter

### Shutter speeds

Mech. shutter: Bulb, 30 min to 1/8000s

Electro. shutter function: 60s to 1/16000s

Flash Synch: up to 1/250s

### 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: 2s or 12s

## Drive Mode

Single	
Continuous - Low Speed	2fps
Continuous - Medium Speed	5fps
Continuous - High Speed	9fps without AFc/AE/WB
Continuous - Very High Speed	25fps with electro. shutter function without AFc/AE/WB
Interval Shooting	
Exposure Bracketing	
Multi-Shot	Generates 2 DNGs: 1x 24 MP, 1x 96 MP 8 frames are combined into one high-res image

## FOCUSING

### Working range

30 cm to ∞

With macro setting: from 17 cm

### Focus Mode

Automatic or manual

With manual setting: optional magnifying glass function (Auto Magnification) and edge marking (Focus Peaking) available as focus aids

### Autofocus system

Based on contrast metering and depth mapping

### Autofocus modes

Intelligent AF (autonomously selects AFs and AFc), AFs, AFc, AF setting can be saved, optional Touch AF

### Autofocus metering methods

Spot (can be shifted), Field (can be shifted and scaled), Multi-Field, Zone (can be shifted), Eye/Face/Body Detection, Tracking

Video mode only: Follow Focus

**Autofocus Metering Fields**

225

**EXPOSURE****Exposure metering**

TTL (exposure metering through the lens)

**Exposure Metering Methods**

Spot, Center-Weighted, Highlight-Weighted, Multi-Field

**Exposure modes**

Automatic program (P)

Aperture priority (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 3EV, in 1/3 EV increments or 1/2 EV increments

additional optional exposure compensation: up to ±3EV

**ISO sensitivity range**

	Photo	Video
Auto ISO	ISO 100 to ISO 100 000	ISO 100 to ISO 50 000
Manual	ISO 50 to ISO 100 000	ISO 50 to ISO 50 000

**White balance**

Automatic (Auto), Default (Daylight - 5200K, Cloudy - 6000K, Shadow - 7000K, Tungsten - 3200K, HMI - 5600K, Fluorescent (warm) - 4000K, Fluorescent (cool) - 4500K, Flash - 5400K), manual metering (Graycard, Graycard Live View), manual color temperature setting (Color Temperature, 2000K to 11,500K)

**FLASH EXPOSURE CONTROL****Flash unit connector**

Via the accessory shoe

**Flash sync time**

↶: 1/250s, slower shutter speeds available, automatic changeover to TTL linear flash mode with HSS-compatible Leica 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 SFC1

**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 + supply voltage (approx. 2.5 V)

**Speaker**

Mono internal + headphones output 3.5 mm stereo jack

**WLAN**

WLAN function for connecting to the Leica FOTOS app. The Leica app is available from the Apple App Store™ or the Google Play Store™. Complies with Wi-Fi IEEE802.11b/g/n, 2.4 GHz, channel 1-11 (2412-2462 MHz) and Wi-Fi IEEE802.11ac, 2.4 GHz & 5 GHz, channel 39-48 (5180-5240 MHz), channel 52-64 (5260-5320 MHz), channel 100-140 (5500-5700 MHz) (standard WLAN protocol), encryption method: WLAN-compatible WPA™/WPA2™

**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.



## Bluetooth

Bluetooth v4.2 (Bluetooth Low Energy (BLE)), 2402 to 2480 MHz

## Menu languages

English, German, French, Italian, Spanish, 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: 1860 mAh; charging time: approx. 140 min (after deep discharge); manufacturer: Panasonic Energy (Wuxi) Co. Ltd., Made in China

Approx. 510 shots (according to CIPA standard, with **Auto Power Off 10 s**), approx. 1430 shots (according to CIPA standard, adapted shooting cycle\*, with **Auto Power Off 5 s**)

### USB Power Supply

USB charger function in standby mode or when switched off

USB power supply when switched on

### Charger (Leica BC-SCL4)

Input: AC 100–240 V, 50/60 Hz, 0.25 A, automatic switchover; output: DC 8.4 V 0.85 A; manufacturer: Salom Electric (Xiamen) Co., Ltd., Made in China

\* Alternating: Switch on, one shoot every 3 s, shutdown after 10 shoots, 5 min wait time; switch on, one shoot every 3 s, shutdown after 50 shoots, 5 min wait time



QuickTime



## LEICA CUSTOMER CARE

Please contact the Customer Care department of Leica Camera AG for the maintenance of your Leica equipment and for help and advice regarding Leica products and how to order them. You can also contact the Customer Care department or the repair service provided by your regional Leica subsidiary for repairs or warranty claims.

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