



# LEICA Q2

Instruction manual



## FOREWORD

Dear Customer,

We wish you a great deal of fun and success taking photographs with your new Leica Q2. 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 Q2 whenever you need it at <https://Q2.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 Q2 with attached lens hood
- Lithium-ion rechargeable battery Leica BP-SCL4
- Charger Leica BC-SCL4, incl. mains cable (US, EU)
- Lens hood cap
- Thread protection ring
- Accessory shoe cover
- Carry strap
- Quick Start Guide
- Test certificate
- CE flyer
- Creative Cloud flyer

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.



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- 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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## BRANDS AND LOGOS

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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.)
<b>WLAN</b>	2412-2462/5180-5240 MHz/ 5260-5320/5500-5700 MHz	20
<b>Bluetooth® Wireless Technology</b>	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 2.4 GHz 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 5150 MHz and 5350 MHz is permitted only in enclosed spaces.
  - Please read the important notes on specific functions of Leica FOTOS on p.202.



## 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 Q2 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 and lenses, as this information will be extremely important in case of loss.
- Depending on model, you will find the serial number of your camera on the flash shoe or engraved in the underside of the camera.
- 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.226) 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. 232). 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 Q2. 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 Q2. 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. 198 for more information.

Select the menu item **Camera Information** (see p. 198) 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 Q2 comes with splash water and dust protection.**

The camera was tested under controlled laboratory conditions and is classes as IP52 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.

# TABLE OF CONTENTS

FOREWORD.....	2	THUMBWHEEL BUTTON.....	39
SCOPE OF DELIVERY .....	2	DIRECTIONAL PAD/CENTER BUTTON.....	39
REPLACEMENT PARTS / ACCESSORIES .....	3	PLAY BUTTON/MENU BUTTON.....	40
LEGAL INFORMATION.....	4	ZOOM/LOCK BUTTON.....	40
SAFETY REMARKS .....	8	LCD PANEL (TOUCH SCREEN).....	41
GENERAL INFORMATION .....	12	<b>MENU CONTROL.....</b>	<b>42</b>
WARRANTY.....	15	CONTROL ELEMENTS.....	42
TABLE OF CONTENTS .....	16	MENU SECTIONS .....	42
PART DESIGNATIONS .....	22	SETTINGS IN PHOTO AND VIDEO MODE .....	42
DISPLAYS.....	24	SWITCHING MENU SECTIONS .....	43
PHOTO.....	24	STATUS SCREEN .....	44
VIDEO.....	26	MAIN MENU .....	46
PREPARATION .....	30	MENU NAVIGATION .....	47
ATTACHING THE CARRY STRAP.....	30	SUBMENU .....	49
PREPARING THE CHARGER.....	30	KEYBOARD/NUMBER PAD.....	49
CHARGING THE BATTERY.....	31	MENU BAR.....	50
INSERTING/REMOVING THE BATTERY.....	32	SCALE MENU .....	51
INSERTING/REMOVING THE MEMORY CARD .....	33	DATE/TIME MENU.....	51
ATTACHING/DETACHING THE LENS HOOD .....	34	COMBI MENU (IMAGE PROPERTIES).....	52
DIOPTER SETTINGS.....	35	<b>USER-DEFINED OPERATION .....</b>	<b>54</b>
CAMERA OPERATION .....	36	FAVORITES MENU.....	54
CONTROL ELEMENTS .....	36	MANAGING THE FAVORITES MENU .....	54
MAIN SWITCH .....	36	DIRECT ACCESS TO MENU FUNCTIONS.....	55
SHUTTER BUTTON.....	37	DYNAMIC DIRECT ACCESS.....	55
SHUTTER-SPEED DIAL .....	38	STATIC DIRECT ACCESS.....	56
THUMBWHEEL .....	38	USER PROFILES .....	57
		<b>CAMERA BASIC SETTINGS.....</b>	<b>60</b>
		<b>MENU LANGUAGE.....</b>	<b>60</b>
		<b>DATE/TIME .....</b>	<b>60</b>
		<b>POWER SAVE MODE (STANDBY MODE).....</b>	<b>61</b>
		AFTER A FEW SECONDS .....	61
		AFTER A FEW MINUTES.....	61



<b>LCD PANEL/VIEWFINDER SETTINGS</b> .....	<b>62</b>	<b>DATA MANAGEMENT</b> .....	<b>71</b>
LCD PANEL/EVF USE .....	62	<b>FORMATTING A MEMORY CARD</b> .....	71
EYE SENSOR SENSITIVITY .....	63	DATA STRUCTURE .....	72
<b>BRIGHTNESS</b> .....	<b>63</b>	EDIT FILE NAMES .....	73
LCD PANEL .....	63	CREATING A NEW FOLDER .....	74
EVF .....	63	LOGGING THE SHOOTING LOCATION .....	74
<b>COLOR RENDERING</b> .....	<b>64</b>	DATA TRANSFER .....	75
LCD PANEL .....	64	<b>PRACTICAL DEFAULT SETTINGS</b> .....	<b>76</b>
EVF .....	64	<b>TOUCH AF</b> .....	<b>76</b>
<b>AUTOMATIC LCD PANEL AND EVF SHUTDOWN</b> .....	<b>64</b>	TOUCH AF + SHUTTER BUTTON .....	77
EVF FRAME RATE .....	64	TOUCH AF IN EVF MODE .....	77
<b>ACOUSTIC SIGNALS</b> .....	<b>65</b>	<b>AUXILIARY DISPLAYS</b> .....	<b>77</b>
VOLUME .....	65	<b>INFO DISPLAYS IN SHOOTING MODE</b> .....	<b>78</b>
ACOUSTIC SIGNALS .....	65	<b>SHOW AVAILABLE</b> .....	<b>78</b>
ELECTRONIC SHUTTER SOUND .....	65	INFO BARS .....	78
AUTOFOCUS CONFIRMATION .....	65	GRID .....	78
SILENT PHOTOGRAPHY .....	65	CLIPPING .....	79
<b>&lt;&lt;&lt; PHOTO MODE &gt;&gt;&gt;</b> .....	<b>66</b>	LEVEL GAUGE .....	79
<b>PHOTO SETTINGS</b> .....	<b>66</b>	HISTOGRAM .....	80
<b>FILE FORMAT</b> .....	<b>66</b>	<b>MF ASSIST FUNCTIONS</b> .....	<b>81</b>
<b>RESOLUTION</b> .....	<b>67</b>	AF ASSIST LAMP .....	81
<b>FILM STYLE</b> .....	<b>67</b>	ACOUSTIC AF CONFIRMATION .....	81
IMAGE PROPERTIES .....	67	<b>PHOTOGRAPHY</b> .....	<b>82</b>
COLOR PROFILE .....	68	<b>DRIVE MODE</b> .....	<b>82</b>
MONOCHROME PROFILE .....	68	<b>FOCUSING</b> .....	<b>83</b>
CUSTOMIZING PHOTO PROFILES .....	69	AF PHOTOGRAPHY .....	83
<b>WORKING COLOR SPACE</b> .....	<b>69</b>	AUTOFOCUS MODES .....	83
<b>AUTOMATIC OPTIMIZATION</b> .....	<b>70</b>	AFs (single) .....	83
<b>IMAGE STABILIZATION</b> .....	<b>70</b>	AFc (continuous) .....	83
<b>DARK AREA OPTIMIZATION (IDR)</b> .....	<b>70</b>	<b>AUTOFOCUS METERING METHODS</b> .....	<b>84</b>
DYNAMIC RANGE .....	70	MULTI-FIELD METERING .....	84
iDR FUNCTION .....	71	SPOT/FIELD METERING .....	84

TRACKING .....	85	SETTING SHUTTER SPEEDS.....	101
FACE DETECTION .....	86	LONG-TERM EXPOSURE.....	102
<b>AF QUICK SETTING.....</b>	<b>86</b>	FIXED SHUTTER SPEEDS .....	102
ACCESSING AF QUICK SETTING.....	86	T FUNCTION .....	102
ADJUSTING THE METERING FIELD SIZE.....	86	<b>EXPOSURE CONTROL.....</b>	<b>103</b>
<b>MF ASSIST FUNCTIONS .....</b>	<b>87</b>	EXPOSURE PREVIEW.....	103
ENLARGEMENT IN AF MODE .....	87	EXPOSURE LOCK .....	104
AF ASSIST LAMP.....	87	EXPOSURE COMPENSATION .....	106
ACOUSTIC AF CONFIRMATION .....	87	<b>SHOOTING MODES.....</b>	<b>107</b>
<b>SHIFTING THE AF METERING FIELD .....</b>	<b>88</b>	CONTINUOUS SHOOTING.....	107
<b>MANUAL FOCUSING (MF).....</b>	<b>88</b>	INTERVAL SHOOTING.....	108
<b>MF ASSIST FUNCTIONS .....</b>	<b>89</b>	EXPOSURE BRACKETING.....	110
FOCUS PEAKING.....	89	SELF-TIMER.....	111
ENLARGEMENT IN MF MODE.....	89	<b>SPECIAL SHOOTING MODES.....</b>	<b>112</b>
<b>MACRO FUNCTION.....</b>	<b>91</b>	DIGITAL ZOOM .....	112
<b>ISO SENSITIVITY.....</b>	<b>91</b>	SCENE MODE.....	113
FIXED ISO VALUES.....	91	MINIATURE EFFECT.....	114
<b>AUTOMATIC SETTING.....</b>	<b>92</b>	PANORAMA IMAGES.....	115
LIMITING SETTING RANGES .....	92	HDR.....	117
<b>WHITE BALANCE .....</b>	<b>93</b>	<b>FLASH PHOTOGRAPHY.....</b>	<b>117</b>
AUTOMATIC CONTROL/FIXED SETTINGS.....	93	COMPATIBLE FLASH UNITS.....	117
MANUAL SETTING VIA METERING.....	94	FLASH EXPOSURE METERING (TTL METERING).....	119
DIRECT SETTING OF THE COLOR TEMPERATURE.....	95	SETTINGS ON THE FLASH UNIT.....	119
<b>EXPOSURE.....</b>	<b>95</b>	HSS (HIGH SPEED SYNC.).....	120
SHUTTER TYPE.....	95	<b>FLASH MODES .....</b>	<b>120</b>
<b>EXPOSURE MODES.....</b>	<b>98</b>	AUTOMATIC FLASH ACTIVATION .....	120
SELECTING A MODE.....	98	MANUAL FLASH ACTIVATION .....	120
<b>FULLY AUTOMATIC EXPOSURE SETTING - P.....</b>	<b>99</b>	AUTOMATIC FLASH ACTIVATION AT SLOWER SHUTTER SPEEDS (LONG-TERM SYNCHRONIZATION).....	121
AUTOMATIC PROGRAM - P.....	99	<b>FLASH CONTROL.....</b>	<b>121</b>
<b>SEMI-AUTOMATIC EXPOSURE SETTING - A/S.....</b>	<b>99</b>	SYNC POINT .....	121
APERTURE PRIORITY - A.....	99	<b>FLASH RANGE.....</b>	<b>122</b>
SHUTTER SPEED PRIORITY - S.....	100	<b>FLASH EXPOSURE COMPENSATION .....</b>	<b>123</b>
<b>MANUAL EXPOSURE SETTING - M.....</b>	<b>100</b>		

REVIEW MODE.....	126
CONTROL ELEMENTS IN REVIEW MODE .....	126
INITIATE/EXIT REVIEW MODE .....	127
SELECTING/SCROLLING THROUGH IMAGES .....	128
INFO DISPLAYS IN REVIEW MODE .....	129
DISPLAYING ASSIST FUNCTIONS .....	130
PICTURE SERIES REVIEW .....	130
JUMPING TO A SPECIFIC PICTURE IN THE GROUP .....	131
RESUMING PLAYBACK/REVIEW .....	131
SAVE AS A VIDEO .....	132
SCROLLING THROUGH THE INDIVIDUAL PICTURES OF A SERIES .....	132
CROPPED SECTION ZOOM .....	133
DISPLAYING MULTIPLE IMAGES AT ONCE .....	134
TAGGING/RATING OF PHOTOS .....	136
DELETING IMAGES .....	136
QUICK ACCESS TO DELETE FUNCTIONS .....	137
DELETING INDIVIDUAL IMAGES .....	137
DELETING MULTIPLE IMAGES .....	138
DELETING ALL IMAGES .....	139
DELETING UNRATED IMAGES .....	140
DELETING PICTURE SERIES .....	140
PREVIEW OF LATEST IMAGE .....	141
SLIDE SHOW .....	141

<<<< VIDEO MODE >>>>	144
VIDEO SETTINGS .....	144
FILE FORMAT .....	144
VIDEO FORMAT .....	144
AVAILABLE RESOLUTIONS .....	145
AVAILABLE FRAME RATES .....	145
SETTING THE VIDEO FORMAT .....	145
VIDEO STYLE .....	146
IMAGE PROPERTIES .....	146
VIDEO PROFILES .....	147
COLOR PROFILE .....	147
MONOCHROME PROFILE .....	147
CUSTOMIZING VIDEO PROFILES .....	147
AUDIO SETTINGS .....	148
MICROPHONE .....	148
WIND NOISE REDUCTION .....	148
AUTOMATIC OPTIMIZATION .....	149
VIDEO STABILIZATION .....	149
DARK AREA OPTIMIZATION (IDR) .....	149
DYNAMIC RANGE .....	149
IDR FUNCTION .....	150
DATA MANAGEMENT .....	150
FORMATTING A MEMORY CARD .....	150
DATA STRUCTURE .....	151
EDIT FILE NAMES .....	152
CREATING A NEW FOLDER .....	153
DATA TRANSFER .....	153
PRACTICAL DEFAULT SETTINGS .....	154
TOUCH AF .....	154
TOUCH AF + SHUTTER BUTTON .....	155
TOUCH AF IN EVF MODE .....	155

<b>AUXILIARY DISPLAYS</b> .....	<b>155</b>	<b>MANUAL SETTING VIA METERING</b> .....	<b>172</b>
<b>SHOW AVAILABLE</b> .....	<b>156</b>	<b>DIRECT SETTING OF THE COLOR TEMPERATURE</b> .....	<b>173</b>
INFO BARS .....	156	<b>EXPOSURE</b> .....	<b>173</b>
GRID .....	156	<b>EXPOSURE METERING METHODS</b> .....	<b>173</b>
LEVEL GAUGE .....	156	<b>EXPOSURE MODES</b> .....	<b>175</b>
HISTOGRAM .....	157	SELECTING A MODE.....	175
<b>MF ASSIST FUNCTIONS</b> .....	<b>158</b>	<b>FULLY AUTOMATIC EXPOSURE SETTING – P</b> .....	<b>176</b>
<b>AF ASSIST LAMP</b> .....	<b>158</b>	<b>SEMI-AUTOMATIC EXPOSURE SETTING – A/S</b> .....	<b>176</b>
<b>ACOUSTIC AF CONFIRMATION</b> .....	<b>158</b>	<b>MANUAL EXPOSURE SETTING – M</b> .....	<b>177</b>
<b>RECORDING VIDEO</b> .....	<b>160</b>	<b>SETTING SHUTTER SPEEDS</b> .....	<b>178</b>
<b>START/EXIT VIDEO MODE</b> .....	<b>160</b>	<b>EXPOSURE CONTROL</b> .....	<b>178</b>
<b>START/END VIDEO RECORDING</b> .....	<b>161</b>	EXPOSURE COMPENSATION .....	178
<b>FOCUSING</b> .....	<b>162</b>	<b>SPECIAL SHOOTING MODES</b> .....	<b>179</b>
<b>AUTOFOCUS MODES</b> .....	<b>162</b>	DIGITAL ZOOM .....	179
<b>CONTROLLING THE AUTOFOCUS</b> .....	<b>163</b>	<b>PLAYBACK MODE</b> .....	<b>182</b>
TOUCH AF .....	163	<b>CONTROL ELEMENTS IN PLAYBACK MODE</b> .....	<b>182</b>
SUPPRESSING CONTINUOUS FOCUSING.....	163	<b>INITIATE/EXIT PLAYBACK MODE</b> .....	<b>183</b>
<b>AUTOFOCUS METERING METHODS</b> .....	<b>163</b>	<b>SELECTING/SCROLLING THROUGH IMAGES</b> .....	<b>184</b>
<b>TRACKING</b> .....	<b>164</b>	<b>INFO DISPLAYS IN PLAYBACK MODE</b> .....	<b>185</b>
FACE DETECTION.....	165	<b>DISPLAYING MULTIPLE SHOTS AT ONCE</b> .....	<b>185</b>
<b>AF QUICK SETTING</b> .....	<b>166</b>	<b>TAGGING/RATING OF RECORDINGS</b> .....	<b>187</b>
ACCESSING AF QUICK SETTING.....	166	<b>DELETING RECORDINGS</b> .....	<b>187</b>
ADJUSTING THE METERING FIELD SIZE.....	166	QUICK ACCESS TO DELETE FUNCTIONS.....	188
<b>MF ASSIST FUNCTIONS</b> .....	<b>166</b>	DELETING INDIVIDUAL RECORDINGS .....	188
<b>SHIFTING THE AF METERING FIELD</b> .....	<b>167</b>	DELETING MULTIPLE IMAGES .....	189
<b>MANUAL FOCUSING (MF)</b> .....	<b>167</b>	DELETING ALL RECORDINGS .....	190
<b>MF ASSIST FUNCTIONS</b> .....	<b>168</b>	DELETING UNRATED RECORDINGS .....	191
<b>MACRO FUNCTION</b> .....	<b>169</b>	<b>SLIDE SHOW</b> .....	<b>191</b>
<b>ISO SENSITIVITY</b> .....	<b>169</b>	<b>VIDEO PLAYBACK</b> .....	<b>192</b>
<b>FIXED ISO VALUES</b> .....	<b>169</b>	<b>VIDEO EDITING</b> .....	<b>195</b>
<b>AUTOMATIC SETTING</b> .....	<b>170</b>		
<b>WHITE BALANCE</b> .....	<b>171</b>		
<b>AUTOMATIC CONTROL/FIXED SETTINGS</b> .....	<b>171</b>		

OTHER FUNCTIONS .....	198
RESETTING THE CAMERA TO FACTORY SETTINGS.....	198
FIRMWARE UPDATES .....	198
EXECUTING A FIRMWARE UPDATE .....	199
LEICA FOTOS .....	202
CONNECTING.....	202
REMOTE CAMERA CONTROL .....	204
CARE/STORAGE .....	206
PIXEL MAPPING .....	207
FAQ .....	208
MENU OVERVIEW .....	214
INDEX .....	218
TECHNICAL DATA.....	226
LEICA CUSTOMER CARE.....	232
LEICA ACADEMY .....	233

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

**Note**

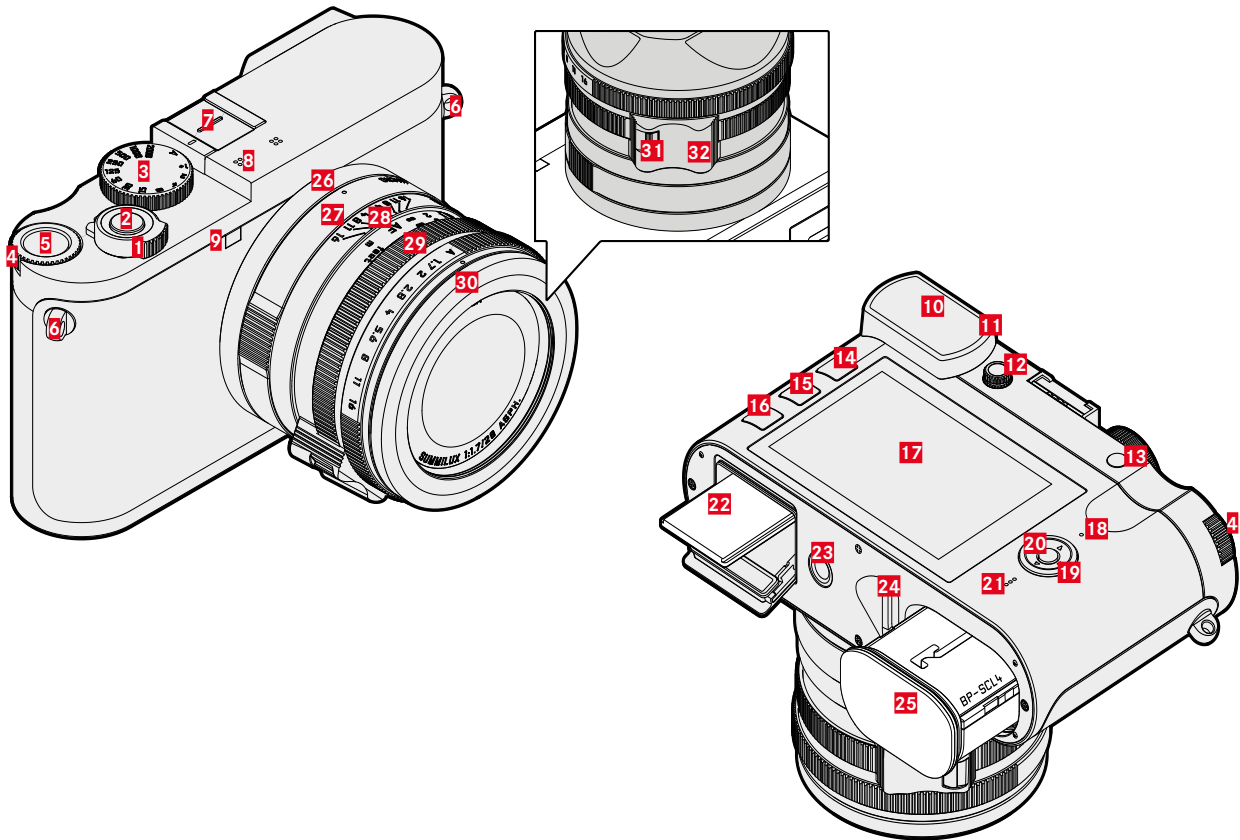
Additional information

**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



## LEICA Q2

- 1** Main switch
- 2** Shutter button
- 3** Shutter-speed dial
- 4** Thumbwheel
- 5** Thumbwheel button
- 6** Strap lugs
- 7** Accessory shoe
- 8** Microphone
- 9** Self-timer LED / AF assist lamp
- 10** Viewfinder eyepiece
- 11** Eye sensor
- 12** Diopter setting wheel
- 13** Zoom/Lock button
- 14** **PLAY** button
- 15** **FN** button
- 16** **MENU** button
- 17** LCD panel
- 18** Status LED
- 19** Directional pad
- 20** Center button
- 21** Speaker
- 22** Memory card slot
- 23** Tripod thread
- 24** Battery release lever
- 25** Battery compartment

## LENS "SUMMILUX 28 f/1.7 ASPH."

- 26** Alignment point for macro function
- 27** Macro ring
- 28** Focus ring
- 29** Aperture ring
- 30** Thread protection ring
- 31** AF/MF lock release
- 32** Focus tab

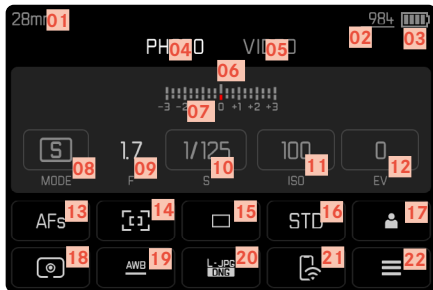


## DISPLAYS

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

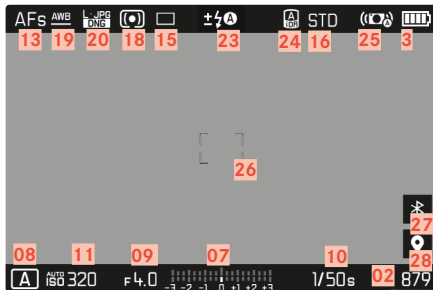
## PHOTO

### STATUS SCREEN



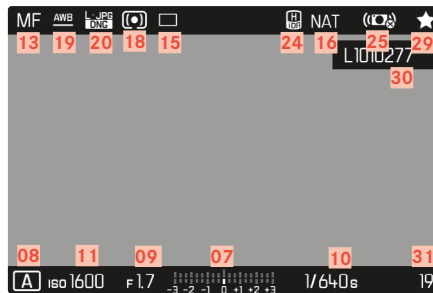
### WHEN TAKING A PICTURE

All displays/values refer to the actual settings.

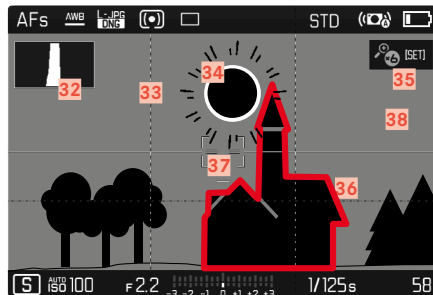


## IN REVIEW MODE



All displays/values refer to the displayed image.



## ACTIVATED Capture Assistants



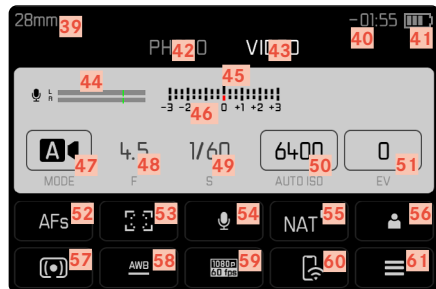


- 01 Focal length
- 02 Remaining storage capacity
- 03 Battery capacity
- 04 Menu section **PHOTO**
- 05 Menu sections **VIDEO**
- 06 Light balance
- 07 Exposure compensation scale
- 08 Exposure mode
- 09 Aperture value
- 10 Shutter speed
- 11 ISO Sensitivity
- 12 Exposure compensation value
- 13 Focus mode
- 14 Autofocus metering method
- 15 Shooting mode (**Drive Mode**)
- 16 Color rendering (**Film Style**)
- 17 User profile
- 18 Exposure metering method
- 19 White balance mode
- 20 File format/compression level/resolution
- 21 Leica FOTOS
- 22 Favorites menu / Main menu
- 23 Flash mode/flash exposure compensation
- 24 iDR
- 25 Stabilization activated
- 26 AF Field
- 27 Bluetooth® (Leica FOTOS)
- 28 Geotagging  
Automatic storage of the shooting location (Exif data)
- 29 Icon for marked picture
- 30 File name
- 31 File number of the image shown
- 32 Histogram
- 33 Grid lines
- 34 Clipping identification of overexposed subject elements
- 35 Automatic magnification as focus assistance for manual focusing  
(3x  or 6x  magnification available)
- 36 Focus peaking  
(identification of in sharp edges in the object)
- 37 Level gauge
- 38  Display of cropped section size and position  
(only visible for enlarged sections)



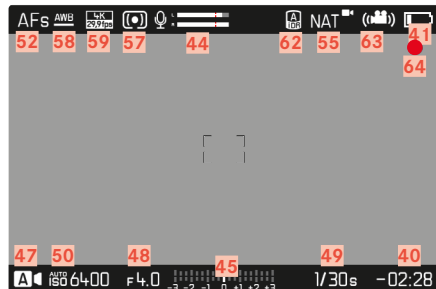
## VIDEO

### STATUS SCREEN



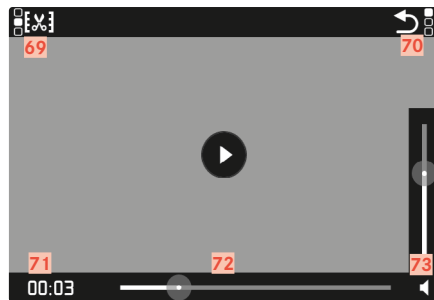
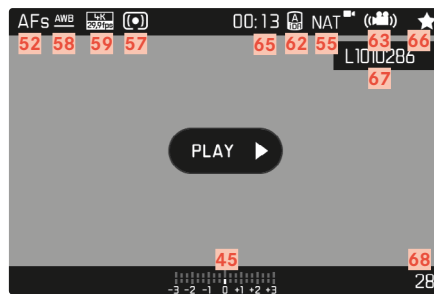
### IN RECORDING MODE

All displays/values refer to the actual settings.



### IN PLAYBACK MODE

All displays/values refer to the displayed image.

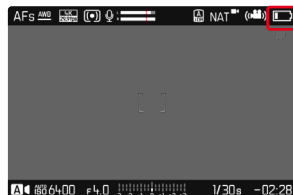
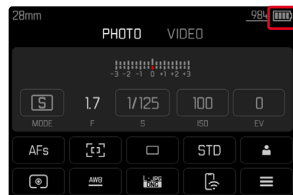


- 39 Focal length
- 40 Remaining storage capacity
- 41 Battery capacity
- 42 Menu section **PHOTO**
- 43 Menu sections **VIDEO**
- 44 Microphone recording level
- 45 Light balance
- 46 Exposure compensation scale
- 47 Exposure mode
- 48 Aperture value
- 49 Shutter speed
- 50 ISO Sensitivity
- 51 Exposure compensation value
- 52 Focus mode
- 53 Autofocus metering method
- 54 Microphone sensitivity (**Microphone Gain**)
- 55 Color rendering (**Video Style**)
- 56 User profile
- 57 Exposure metering method
- 58 White balance mode
- 59 Resolution / Frame rate
- 60 Leica FOTOS
- 61 Favorites menu / Main menu
- 62 iDR
- 63 Stabilization activated
- 64 Indicates for video recording in progress
- 65 Length of video recording
- 66 Icon for marked video recording
- 67 File name
- 68 File number of the video recording shown
- 69 Video editing function
- 70 Exiting video playback
- 71 Current playback time
- 72 Playback status bar
- 73 Volume bar



## 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.



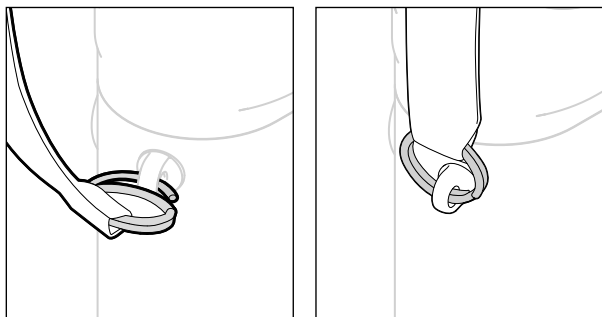
Display	Charge status
	Approx. 75 - 100%
	Approx. 50 - 75%
	Approx. 25 - 50%
	Approx. 0 - 25%
	Approx. 0% The battery needs charging or replacing





## PREPARATION

### ATTACHING THE CARRY STRAP

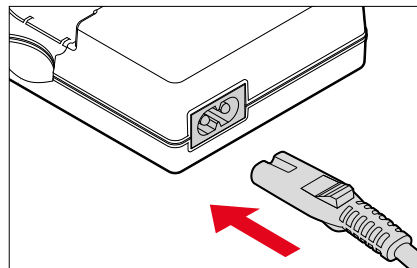


#### Attention

- 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.



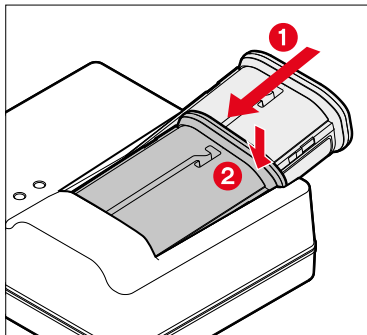
#### Note

- 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

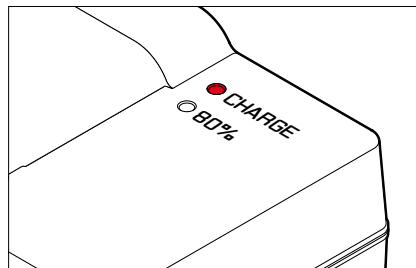


- ▶ Slide the battery into the charger with the groove facing up until the contacts meet
- ▶ Press down on the battery until you can hear and feel it clicking into place
- ▶ Ensure that the battery is fully inserted into the charger

### 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. 3.5h

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

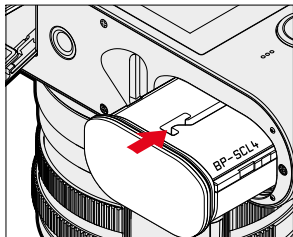
\* for a completely discharged battery



## INSERTING/REMOVING THE BATTERY

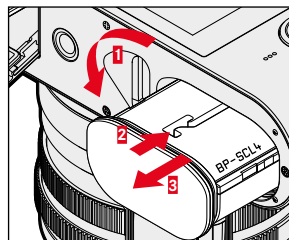
- ▶ Ensure that the camera is switched OFF (see p. 36)

### 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.
- ▶ Remove 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

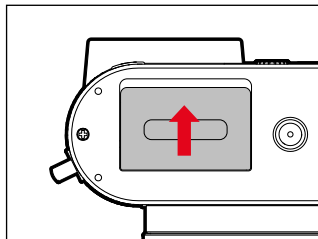
The camera will save exposures to an SD (Secure Digital), SDHC (High Capacity) or SDXC (eXtended Capacity) memory card.

### 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. 71). 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.

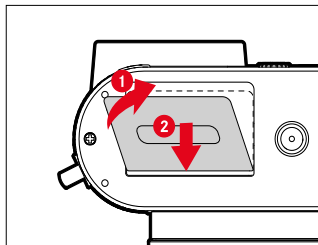
- ▶ Ensure that the camera is switched OFF (see p.36)

### 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.

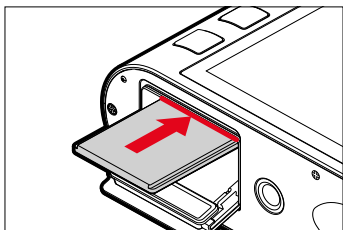
### CLOSING THE COVER OVER THE MEMORY CARD SLOT



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

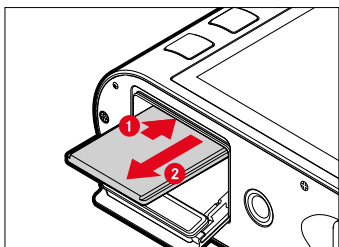


## INSERTION



- ▶ Push the memory card into the slot with the contacts pointing towards the LCD panel until you hear and feel it clicking into place

## REMOVAL



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

## ATTACHING/DETACHING THE LENS HOOD

This camera comes with a matching lens hood. It is pre-mounted ex works.

The use of the lens hood is recommended to reduce vignetting.

## DETACHING

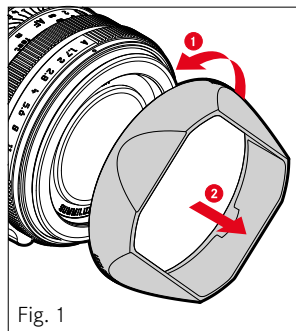


Fig. 1

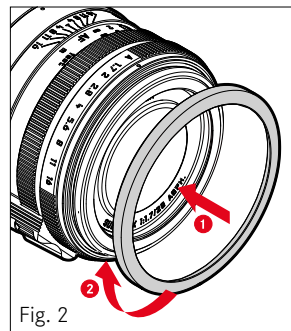


Fig. 2

- ▶ Unscrew the lens hood in counter-clockwise direction (Fig. 1)
- ▶ Screw on the thread protection ring (Fig. 2)

## ATTACHING

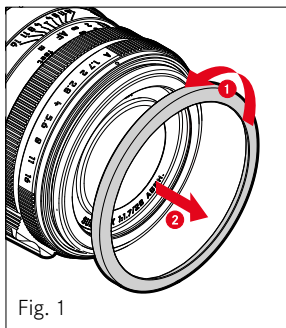


Fig. 1

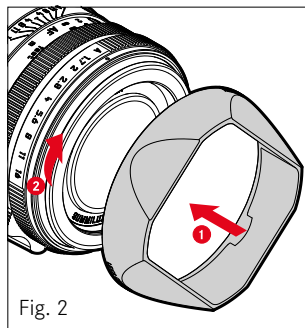


Fig. 2

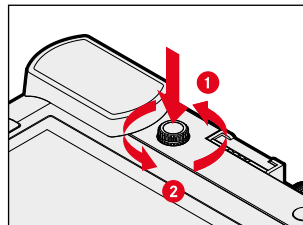
- ▶ Unscrew the thread protection ring in counter-clockwise direction (Fig. 1)
- ▶ Screw on the lens hood in clockwise direction to the stop (Fig. 2)

### Notes

- The lens hood cover supplied will only fit the lens hood and cannot be used as lens cover on its own.
- A matching lens front cap E49 (Order No. 14001) is available as an optional accessory for use of the camera without the lens hood: [store.leica-camera.com](http://store.leica-camera.com)

## DIOPTER SETTINGS

The viewfinder has a diopter setting function with a range between -4 and +3 diopter to allow glasses wearers the use of the camera without eyeglasses (diopter compensation).



- ▶ Push the diopter setting wheel into its groove until you hear an audible click
  - This unlocks the diopter setting wheel and it pushes out a little.
- ▶ Look through the viewfinder
- ▶ Aiming at and focusing on an object
- ▶ Push the diopter setting wheel back into its groove until it audibly clicks into place



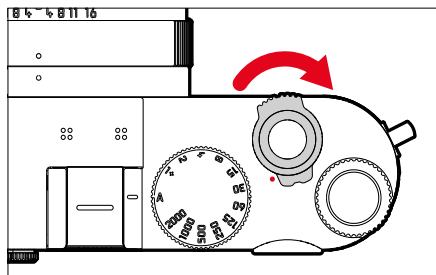
## CAMERA OPERATION

### CONTROL ELEMENTS

#### MAIN SWITCH

The main switch switches the camera on and off.

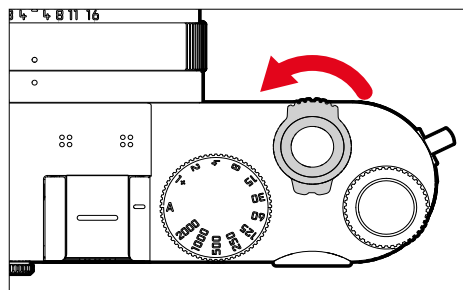
#### SWITCHING THE CAMERA ON



#### 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.

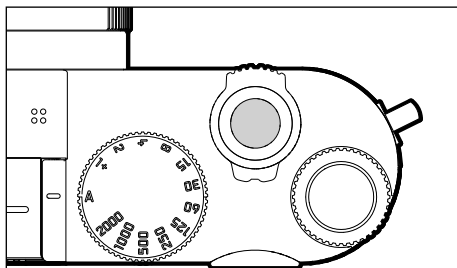
#### SWITCHING THE CAMERA OFF



#### Note

- The function **Auto Power Off** (see p. 61) 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.

### 1. **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

### 2. **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

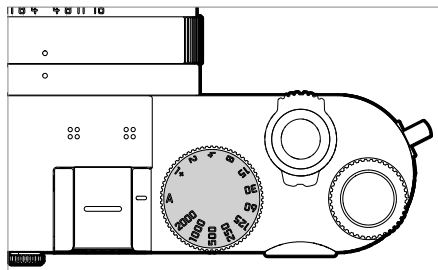
- Press down the shutter button in a smooth motion until you hear the click of the shutter to prevent camera shake.
- The shutter button remains locked:
  - if the memory card inserted and/or the internal buffer memory are (temporarily) full
  - if the battery has exceeded its performance limits (capacity,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





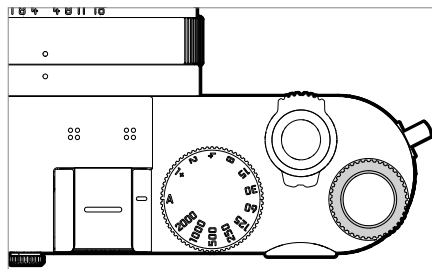
## SHUTTER-SPEED DIAL

The shutter-speed dial has no stop, which means it can be turned in either direction from any position. It will click at each engraved position and for intermediate values. Intermediate positions outside the click positions must not be used. Please read the section “Exposure” (see p. 95 and 173) for details about correct exposure settings.



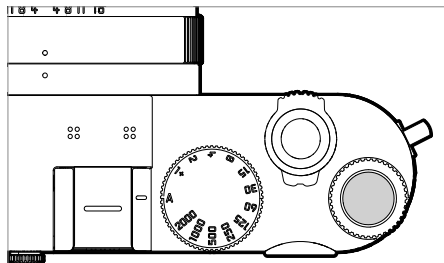
- **A**: Aperture priority  
(Automatic shutter speed control)
- **2000 - 1+**: Fixed shutter speeds

## THUMBWHEEL



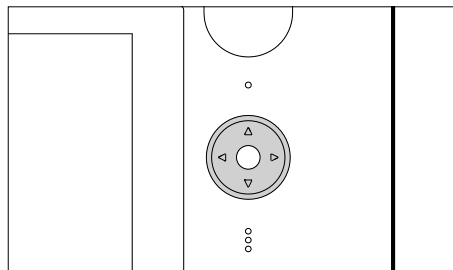
- Menu navigation
- Exposure compensation value selection
- Enlarging/reducing viewed pictures
- Setting selected menu items/functions
- Setting the program shift

## THUMBWHEEL BUTTON



- Applying menu settings
- Direct access to menu functions
- Accessing the submenu

## DIRECTIONAL PAD/CENTER BUTTON



### DIRECTIONAL PAD

- Menu navigation
- Setting selected menu items/functions
- Scrolling through the gallery
- Shifting the metering field (Field or Spot AF)

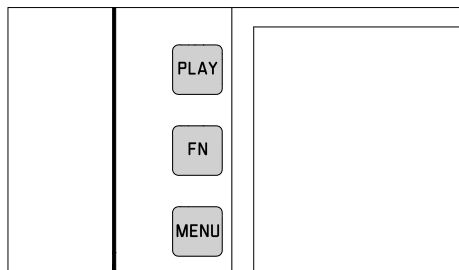
### CENTER BUTTON

- Accessing the information display
- Accessing the submenu
- Applying menu settings
- Displaying settings/data when recording
- Display of image data during review
- 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

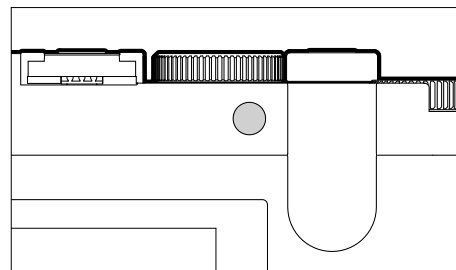
### FN BUTTON

- Direct access to menu functions
- Direct access to delete function

### MENU BUTTON

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

## ZOOM/LOCK BUTTON



- Direct access to menu functions
- Marking/rating a shot



## 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	Enlarging/reducing viewed pictures
	“swipe”		Scrolling through the gallery Shifts the enlarged image section
	“horizontal swipe” (full length)	Mode change (photo/video)	Scrolling through the gallery
	“vertical swipe” (full length)	Switching to review mode	Switching 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>Face Detection</b> )	Enlarging/reducing viewed pictures
	“swipe and hold” “hold and swipe”		Continuous scrolling

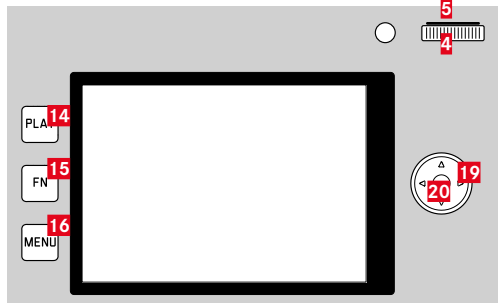
\* A light touch is enough, don't apply pressure.



## MENU CONTROL

### CONTROL ELEMENTS

The following elements are used for menu control.



- |                       |                            |
|-----------------------|----------------------------|
| <b>14</b> PLAY button | <b>5</b> Thumbwheel button |
| <b>15</b> FN button   | <b>4</b> Thumbwheel        |
| <b>16</b> MENU button | <b>19</b> Directional pad  |
|                       | <b>20</b> Center button    |

### 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. 54 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**:

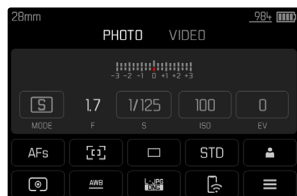
- offers access to all menu items
- contains various submenus

### SETTINGS IN PHOTO AND VIDEO MODE

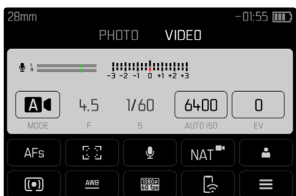
Generally, all menu items are accessible and adjustable in photo and video mode. Most settings apply for both modes. Some will, however, only affect one of the two modes. Settings will generally remain unchanged after the camera is switched off. More information and exceptions to the rule can be found in the relevant sections.

## STATUS SCREEN

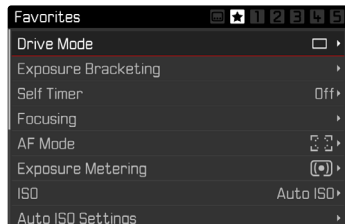
### Photo



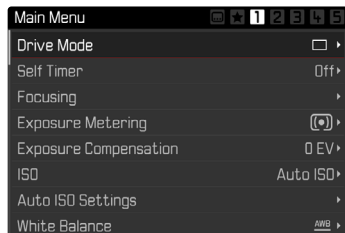
### Video



## FAVORITES



## MAIN MENU



## SWITCHING MENU SECTIONS

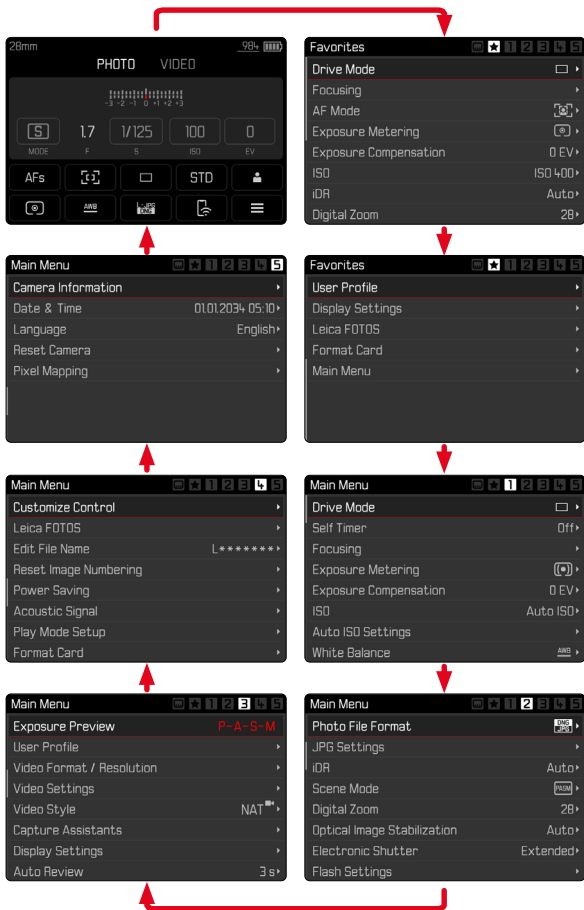
The status screen will always be displayed as the first menu section. The top level of the menu is organized into “pages”, which are displayed in the header line: Status screen, poss. Favorites menu (up to 2 pages), and several sections of the Main menu. You can switch between menu sections by scrolling 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
  - The status screen will appear again after the last page of the main menu.

### Scrolling backward

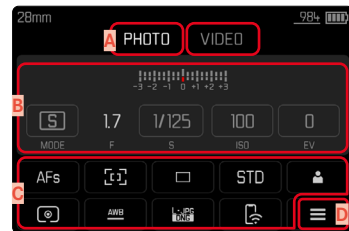
- ▶ Press the directional pad left
  - In reverse order, you can only browse back to the status screen.



## 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. 160)
- B** Exposure settings (see p. 95 and p. 173)
- 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 directional pad, center button, thumbwheel and the thumbwheel button.
- 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. 24 and p. 26).

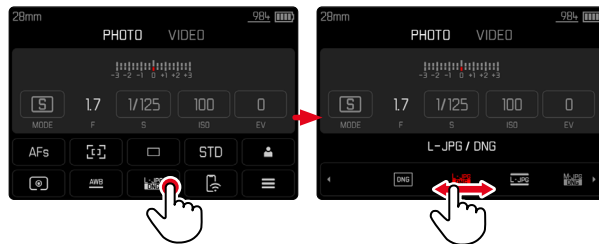
## SELECTING SETTINGS

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. 50).

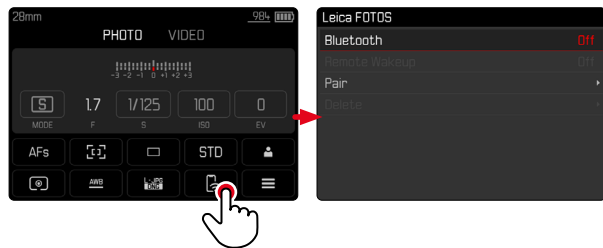


- ▶ Select the desired function directly or swipe



## ACCESSING A STANDARD SUBMENU

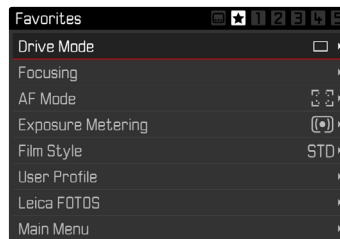
These menus behave as if they were accessed from within the main menu (see p. 47). Touch control is therefore unavailable. From there, you return to the status screen and not to the next higher menu item.



- ▶ Select the desired setting

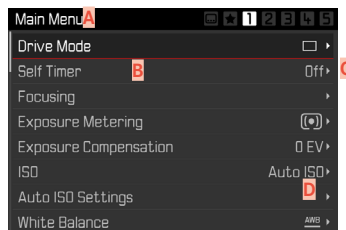
## FAVORITES MENU

The favorites menu offers quick access to the most frequently used menu items. It can contain up to 15 menu items. These can be assigned individually (see p. 54).



## MAIN MENU

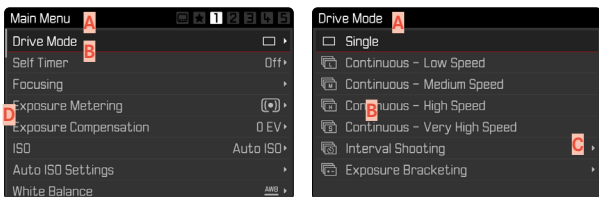
The main menu offers access to all settings. Most of these are organized in submenus.



- 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)
  - The status screen will appear again after the last page of the main menu.

#### Scrolling backward

- ▶ Press the directional pad left
  - In reverse order, you can only browse back to the status screen.



## LINE BY LINE NAVIGATION

(Function/function option selection)

- ▶ Press the directional pad 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 center button/thumbwheel button  
or
- ▶ Press the directional pad to the right

## CONFIRM SELECTION

- ▶ Press the center button/thumbwheel button
  - 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 directional pad 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

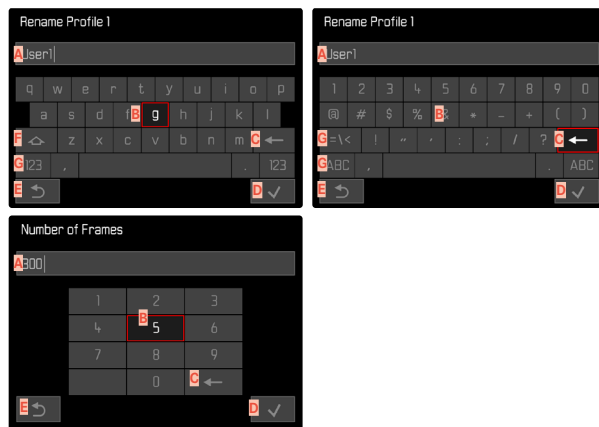
- ▶ Tap the shutter button

### 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 directional pad in the relevant direction
  - The currently active button will be highlighted.
- ▶ Press the center button/thumbwheel button

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 center button/thumbwheel button

### Using touch control

- ▶ Press the button of your choice

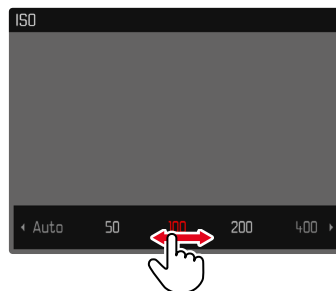
## SAVE

- ▶ Select button **D**

## CANCEL

- ▶ Select button **E**

## MENU BAR



### Using button control

- ▶ Press the directional pad left/right
- or
- ▶ Turn the thumbwheel

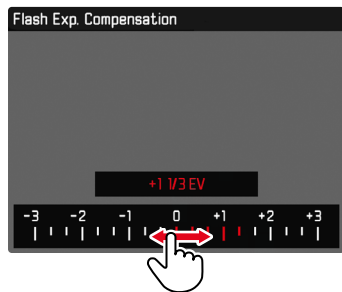
### Using touch control

- ▶ 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 directional pad left/right
- or
- ▶ Turn the thumbwheel

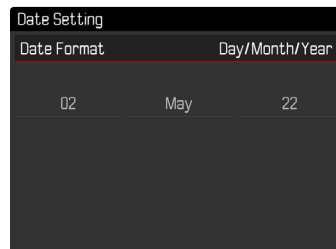
### Using touch control

- ▶ 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 directional pad left/right

### Setting values

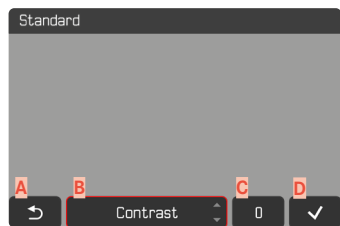
- ▶ Press the directional pad up/down
- or
- ▶ Turn the thumbwheel

### Saving and returning to superordinate menu item

- ▶ Press the center button



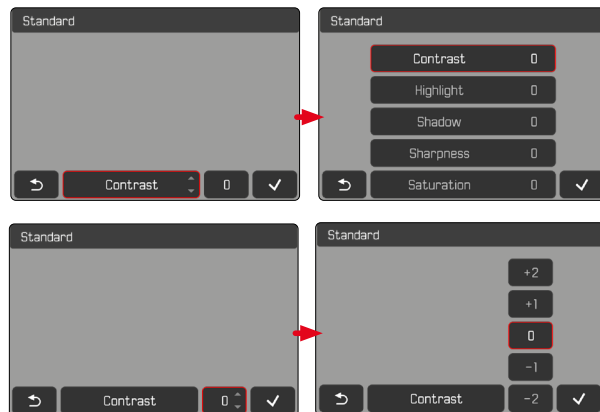
## COMBI MENU (IMAGE PROPERTIES)



- 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 directional pad left/right
  - An active button is indicated by a red frame.

### **Applying setting**

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

or

- ▶ Press the center button
  - All selectable options are displayed.
  - The “Parameter” button displays the currently set value for each of the parameter options.
- ▶ Press the directional pad up/down
  - An active button is indicated by a red frame.
- ▶ Press the center button
  - 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



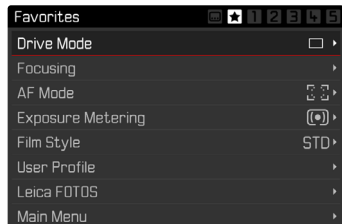


## USER-DEFINED OPERATION

### FAVORITES MENU

Assign your most frequently used menu items to a favorites menu (up to 15 items) for quick and easy access. The available functions are shown in the list on p. 214.

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

- ▶ 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 15 menu items and no further items can be added.

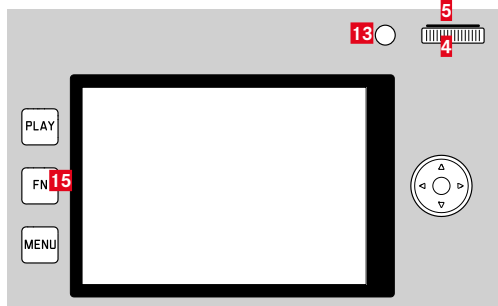
#### Note

- 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 following operating elements for extra quick direct access to menu items in shooting mode. The available functions are shown in the list on p.214.



- 13** Zoom/Lock button
- 15** FN button
- 5** Thumbwheel button
- 4** Thumbwheel

### 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.

## DYNAMIC DIRECT ACCESS

The two following buttons additionally allow a quick assignment of menu functions from a custom list of items.

- FN button (factory setting: **Self Timer**)
- Thumbwheel button (factory setting: **ISO**)

### CREATING THE CUSTOM LIST

- ▶ Select **Customize Control** in the main menu
- ▶ Select **FN button / Right Wheel Button**
- ▶ Select **On** or **Off** for each menu item
  - You can activate a maximum of 8 menu items for this list.

### CHANGING AN ASSIGNMENT

- ▶ **Press and hold** the FN button / thumbwheel button
  - The direct access list you have created will appear on the LCD panel.
  - This list can be modified at any time via the menu item **Customize Control**.
- ▶ Select the menu item you want by pressing the center button
  - You will not be prompted to acknowledge your selection. The change is applied immediately.

### ACCESSING THE ASSIGNED MENU FUNCTION

- ▶ Press the FN button/thumbwheel button **briefly**
  - The assigned function is accessed, or a submenu appears on screen.



## STATIC DIRECT ACCESS

The two following operating elements can only be assigned one of the preset functions via menu control. A custom list is not available.

- Zoom/Lock button
- Thumbwheel

## ZOOM/LOCK BUTTON

Factory setting: **Digital Zoom**

Alternatively, you can assign automatic exposure metering and/or metering memory lock to the Zoom/Lock button.

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Zoom/Lock Button**
- ▶ Select **Digital Zoom**, **AF-L + AE-L**, **AE-L** or **AF-L**

## ACCESSING THE ASSIGNED MENU FUNCTION

- ▶ Press the Zoom/Lock button briefly

## THUMBWHEEL

Factory setting: **Auto**

You can assign the exposure compensation function to the thumbwheel permanently.

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Customize Wheel**
- ▶ Select **Exp. Comp.**

The thumbwheel has varying functions depending on the exposure mode (see p. 95/p. 173) when it is set to **Auto**.

	Off	Auto	Exp. Comp.
P	No function	Program shift	Exposure compensation
A	No function	Exposure compensation	Exposure compensation
S	No function	Shutter speed	Exposure compensation
M	No function	Shutter speed	Exposure compensation

## ACCESSING THE ASSIGNED MENU FUNCTION

- ▶ Turn the thumbwheel to the left/right

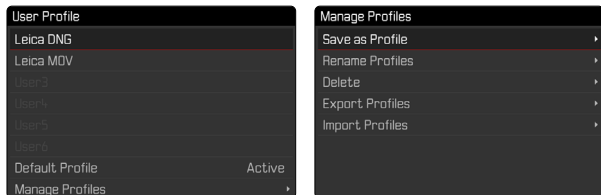


## USER PROFILES

This camera allows the permanent storage of any menu settings, to e.g. access them quickly and easily for recurring conditions/image objects. The camera will also save the currently selected mode (Photo/Video).

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.

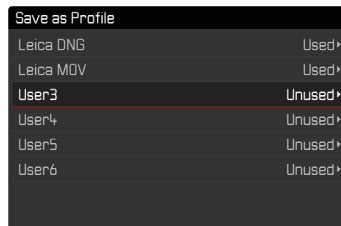
Any profiles configured for the camera can be saved to a memory card for use on another camera. Similarly, profiles saved on a memory card can be transferred to the camera.



## 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



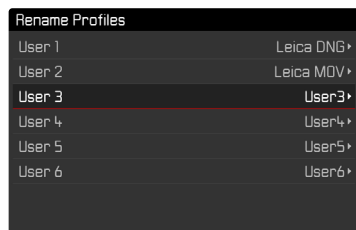
- ▶ Confirm the selection

### Notes

- Existing profiles are overwritten with the latest settings.



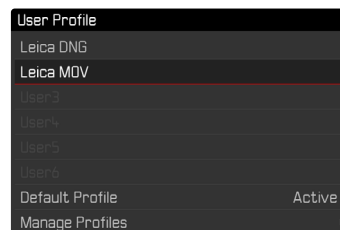
## RENAMING PROFILES



- ▶ 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. 49)
  - Profile names must be between 3 and 10 characters in length.

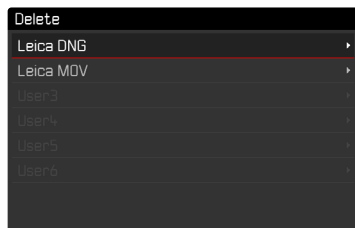
## APPLY/ACTIVATE PROFILES

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.

## DELETING PROFILES



- ▶ Select **User Profile** in the main menu
- ▶ Select **Manage Profiles**
- ▶ Select **Delete**
- ▶ Select a profile
- ▶ Confirm the selection

## 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. 198), 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

### DATE

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

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

### TIME

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

## 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 three power save levels.

- Activates device standby mode in seconds
- Standby mode is activated after 2 min/5 min/10 min
- Automatic LCD panel shutdown (see p. 64)

### AFTER A FEW SECONDS

The camera will switch to standby mode within a few seconds to maximize battery capacity.

Factory setting: **Off**

- ▶ Select **Power Saving** in the main menu
- ▶ Select **Power Saving Mode**
- ▶ Select the desired setting  
(**Off**, **3 s**, **5 s**, **10 s**)

### AFTER A FEW MINUTES

Factory setting: **2 min**

- ▶ Select **Power Saving** in the main menu
- ▶ Select **Auto Power Off**
- ▶ Select the desired setting  
(**Off**, **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" 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
Auto	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>	
LCD		<ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>
EVF	<ul style="list-style-type: none"> <li>• Shooting</li> <li>• Review</li> <li>• Menu control</li> </ul>	
EVF extended	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

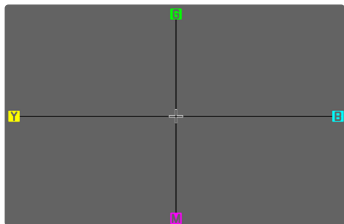
#### Note

- 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.

Factory setting: **1 min**

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

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

## ELECTRONIC SHUTTER SOUND

Factory setting: **Off**

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

## AUTOFOCUS CONFIRMATION

A signal sound can be selected for successful AF settings.

Factory setting: **Off**

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

## SILENT PHOTOGRAPHY

When pictures should be taken as quietly as possible.

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



## PHOTO SETTINGS

### 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**)

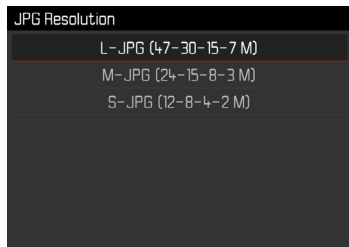
#### Notes

- 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. **L-JPG** (47 MP), **M-JPG** (24 MP) and **S-JPG** (12 MP). 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

When the Digital Zoom function (see p. 112) is selected, then images will be saved with the following actual resolutions.

	28 mm	Digital Zoom 35 mm	Digital Zoom 50 mm	Digital Zoom 75 mm
<b>L-JPG</b>	<b>47 MP</b>	30 MP	15 MP	7 MP
<b>M-JPG</b>	<b>24 MP</b>	15 MP	8 MP	3 MP
<b>S-JPG</b>	<b>12 MP</b>	8 MP	4 MP	2 MP

## 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.

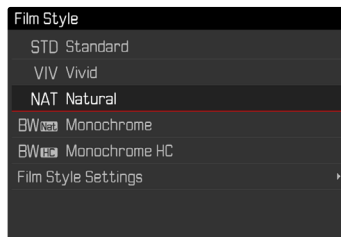
## COLOR PROFILE

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:

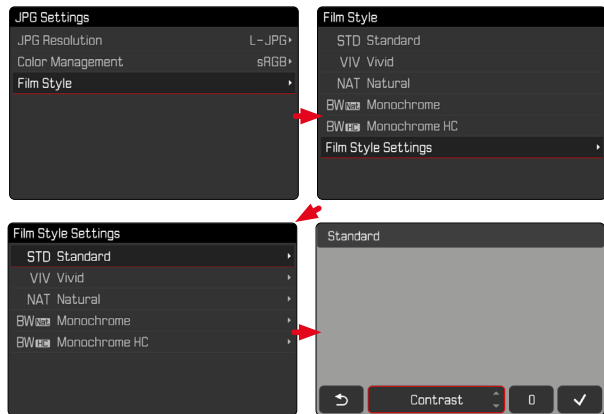
- **BW** **Monochrome**
- **BW** **Monochrome HC**

- ▶ 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. 52 for details on menu operation.

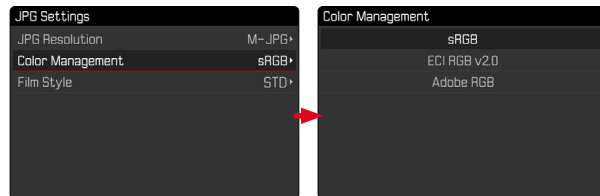
- ▶ Select **JPG Settings** in the main menu
- ▶ Select **Film Style**
- ▶ Select **Film Style Settings**
- ▶ Select a profile
- ▶ Select **Contrast/Highlight/Shadow/Sharpness/Saturation**
- ▶ Select the desired level  
(-2, -1, 0, +1, +2)
- ▶ Confirm



## WORKING COLOR SPACE

Various color spaces can be selected for JPG files depending on the desired purpose.

Factory setting: **sRGB**



- ▶ Select **JPG Settings** in the main menu
- ▶ Select **Color Management**
- ▶ Select the desired setting

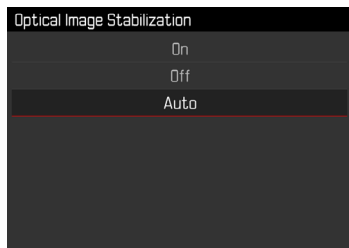
<b>sRGB</b> (Standard RGB)	Recommended for simple print
<b>Adobe RGB</b>	Recommended for sophisticated image editing, e.g. color correction
<b>ECI RGB v2.0</b>	Recommended for the professional pre-press stage

## AUTOMATIC OPTIMIZATION

### 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: **Auto**

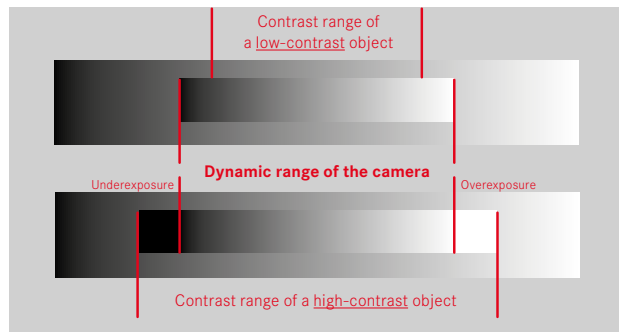


- ▶ Select **Optical Image Stabilization** in the main menu
- ▶ Select the desired setting (**On**, **Off**, **Auto**)

## 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 **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.
- This function will only affect shots in JPG format.

## DATA MANAGEMENT

### 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.

- ▶ Select **Format Card** in the main menu
- ▶ Confirm the selection
  - The status LED will flash during the 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.232).

## 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 9999 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 9999 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 **Edit File Name** in the main menu
  - 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. 49)
- ▶ 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 **Reset Image Numbering** in the main menu
  - 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.

## 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 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 can be used for the transfer.

### Notes

- We recommend using a card reader for the transfer of large files.





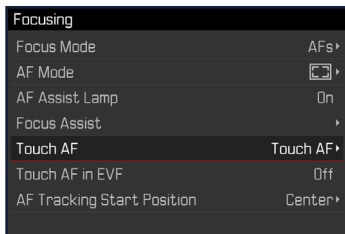
## PRACTICAL DEFAULT SETTINGS

### TOUCH AF

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

Factory setting: **Touch AF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Touch AF**

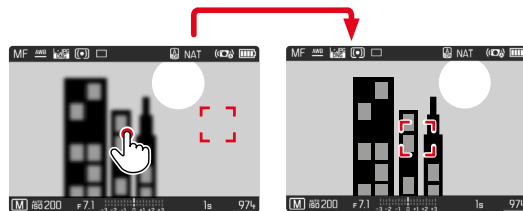


- ▶ Select **Touch AF**



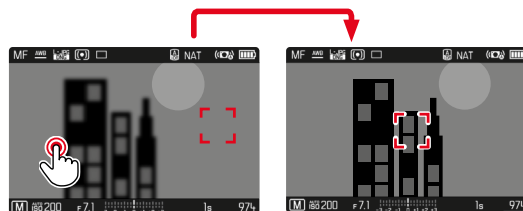
### Positioning the AF Metering Field

- ▶ 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**, **Tracking** and **Face Detection**.
- With **Spot**, **Field** or **Face 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 position of the AF metering field can only be reset with a double-tap, even if the setting is **Off**.

## TOUCH AF + SHUTTER BUTTON

The combination **Touch AF + Release** allows a direct placement of the AF metering field for immediate recording.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Touch AF**
- ▶ Select **Touch AF + Release**
- ▶ Tap the LCD panel in the desired position

### Note

- The metering field cannot be reset as usual via a double tap if **Touch AF + Release** is activated.

## 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. AF Quick Setting (see p. 166) continues to be accessible. This function can also be disabled if that is not wanted (e.g. when focusing with the left eye).

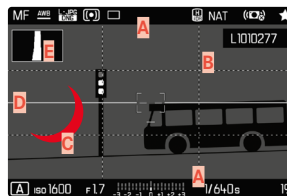
Factory setting: **Off**

- ▶ Select **Focusing** in the main menu
  - ▶ Select **Touch AF in EVF**
  - ▶ Select the desired setting  
(**On**, **AF Quick Setting only**, **Off**)
- **On**
    - Positioning the AF metering field (tap)
    - Accessing the AF Quick Setting (tap and hold)
  - **AF Quick Setting only**
    - Accessing the AF Quick Setting (tap and hold)
  - **Off**

## AUXILIARY DISPLAYS

You can select a number of other displays in addition to the standard information contained in the header and footer to adapt the screen image to your needs. The following functions are available:

- Grid (only shooting mode, see p. 78)
- Clipping (see p. 79)
- Level Gauge (only shooting mode, see p. 79)
- Histogram (see p. 80)



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

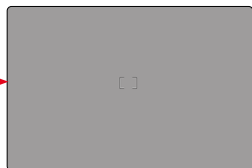
- ▶ Select **Capture Assistants** in the main menu
- ▶ Select the desired function
- ▶ Select **On/Off**



## INFO DISPLAYS IN SHOOTING MODE

Select one of the three available display options.

- ▶ Press the center button
  - The display cycles through the display options.



– No picture data



– Footer with exposure information, auxiliary displays



– Header with recording information, footer with exposure information, auxiliary displays

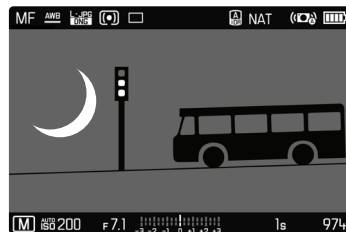
### Briefly showing/hiding information

- ▶ Tap and hold the shutter button
  - (Only) the exposure information and currently active auxiliary functions will be visible.

## 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. 24).



### GRID

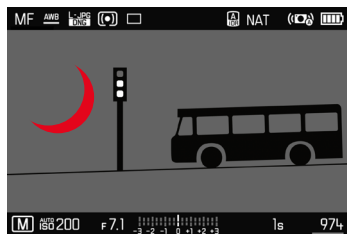
The grids divide the image frame into multiple fields. They facilitate picture composition and an exact camera orientation.



- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Grid**
- ▶ Select **On/Off**

## 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.

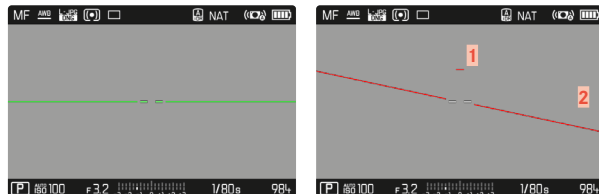


- ▶ Select **Capture Assistants** in the main menu
  - ▶ Select **Clipping**
  - ▶ Select **On/Off**
- 
- ▶ Tap and hold the shutter button
    - The clipping display appears.

## 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.

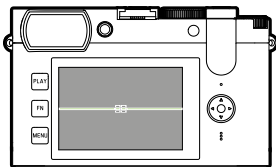
Deviations in relation to the longitudinal axis (i.e. when the camera is tilted up or down in the direction of view) are indicated by a short line in the center of the image (1). Deviations in relation to the transverse axis (when the camera is tilted to the left or right) are indicated by two long lines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



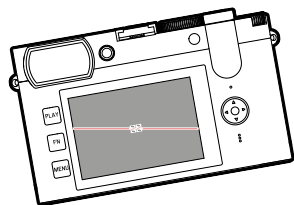
- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Level Gauge**
- ▶ Select **On/Off**

### Note

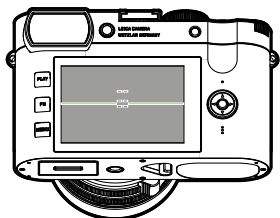
- The camera will switch the aspect of the level gauge autonomously for shoots in vertical format.



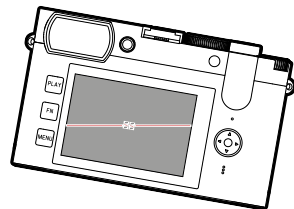
Correct alignment



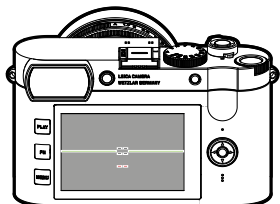
Tilted laterally to the left



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.



- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Histogram**
- ▶ Select **On/Off**

### 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.



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





## 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 Q2 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. 107)	Speed: <ul style="list-style-type: none"><li>- <b>Continuous - Low Speed</b></li><li>- <b>Continuous - Medium Speed</b></li><li>- <b>Continuous - High Speed</b></li><li>- <b>Continuous - Very High Speed</b></li></ul>
Interval shooting (see p. 108)	<b>Number of Frames</b> Interval between the shootings ( <b>Interval</b> ) Delay time ( <b>Countdown</b> )
Exposure bracketing (see p. 110)	<b>Number of Frames</b> (3 or 5) <b>EV Steps</b> <b>Exposure Compensation</b> <b>Automatic</b>
Self-timer (see p. 111)	Delay time: <ul style="list-style-type: none"><li>- <b>Self-timer 2 s</b></li><li>- <b>Self-timer 12 s</b></li></ul>



## FOCUSING

Your Leica Q2 allows automatic as well as manual focusing. There are 2 operating modes and 5 metering methods available for AF photography.

### AF PHOTOGRAPHY

- ▶ Press and hold the AF/MF release button
- ▶ Turn the focus ring to the **AF** position
- ▶ 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, focus settings and/or exposure settings can be done and saved via the Zoom/Lock button (“Exposure lock”, see p. 104).
- ▶ Shutter release

### MF PHOTOGRAPHY

- ▶ Press and hold the AF/MF release button
- ▶ Turn the focus ring away from the **AF** position
- ▶ 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** and **AFc**. The currently selected AF mode is shown in the header line.

Factory setting: **AFs**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select the desired setting (**AFs**, **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**, **Tracking**, **Face 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. 76 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. 88).

## 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 Zoom/Lock button (provided it was assigned the function **AF-L** or **AF-L + AE-L**, see p. 104)
  - 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 Tracking Start Position**
- ▶ Select the desired setting (**Last Position**, **Recall**, **Center**)





## FACE DETECTION

In this metering method, the Leica Q2 automatically detects faces in the image field. The focus is set automatically on the faces closest to the camera. Field metering is used if no faces are detected.



## AF QUICK SETTING

The AF Quick Setting allows quick changes to the metering field size during field metering.

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**/**Face Detection** is set.



### ADJUSTING THE METERING FIELD SIZE

(only **Field** and **Face Detection**)

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

## 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 the **FN** button or thumbwheel button to use this feature (see p. 55).

#### Accessing the enlargement function

- ▶ Press the **FN** button / thumbwheel 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.

#### Adjusting the enlargement function

- ▶ Press the center button
  - The image section toggles between magnification factors (3x/6x).

#### Changing the position of the enlarged section

- ▶ Press the directional pad 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 used function and zoom factor will still be set the next time the function 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. 81 for settings.

## ACOUSTIC AF CONFIRMATION

You can set an acoustic confirmation signal for successful focus metering in AF mode (see p. 65).





## SHIFTING THE AF METERING FIELD

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

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

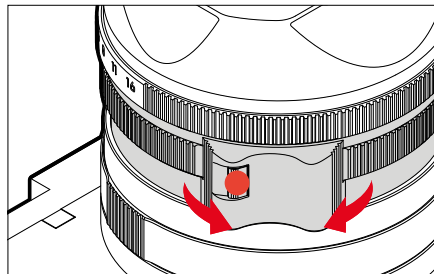
### Notes

- 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** and **Field**. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

## 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
- ▶ Move the focus ring out of the **AF** position  
(press and hold the AF/MF lock release)



- ▶ Turn the focus ring until the desired part of the object is in clear focus

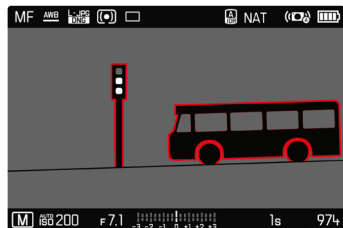


## MF ASSIST FUNCTIONS

The following assist functions are available in MF mode.

### FOCUS PEAKING

This assist function highlights the edges of in focus subject elements in color. The color can be user-specified.



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



## Adjusting the enlargement function

- ▶ Press the center button
  - The image section toggles between magnification factors (3x/6x).

## Changing the position of the enlarged section

- ▶ Press the directional pad in the relevant direction

## Exiting the enlargement function

- ▶ Tap the shutter button

### Note

- The enlargement will automatically return to normal viewing size about 5 s after the last movement of the focus ring.
- The most recently magnification function will still be active the next time the feature is accessed.

## ACCESS VIA THE FUNCTION BUTTON

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

The **Magnification** function must be assigned to the **FN** button or thumbwheel button to use this feature (see p. 55).

## Accessing the enlargement function

- ▶ Press the **FN** button / thumbwheel 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.

## Adjusting the enlargement function

- ▶ Press the center button
  - The image section toggles between magnification factors (3x/6x).

## Changing the position of the enlarged section

- ▶ Press the directional pad in the relevant direction

## Exiting the enlargement function

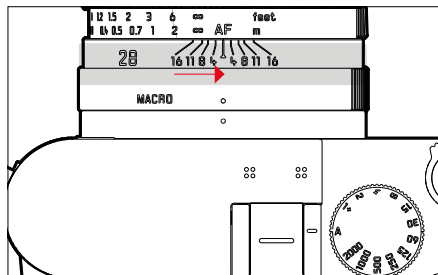
- ▶ Tap the shutter button

### Note

- The enlargement function remains active until it is exited.

## MACRO FUNCTION

The working range for the focus setting can be switched quickly and easily from the standard focus range (30 cm to infinity) to the macro range (17 cm to 30 cm) using the macro setting ring. AF and MF mode are available in both ranges.



- ▶ Turn the macro setting ring until the alignment point is set to **MACRO**
  - The distance scales on the focus ring change when the focus ranges change.

## ISO SENSITIVITY

The ISO setting covers a range between ISO 50 and ISO 50000, 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 50000 can be selected in 11 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.

- ▶ 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 focal length related settings (**1/f**, **1/(2f)**, **1/(3f)**, **1/(4f)**) and fixed max. shutter speeds **1/2** s and **1/2000** s available for that purpose.

In the focal length-specific settings, the camera will only switch to a higher sensitivity if the shutter speed would fall below the set threshold due to low light.

Separate settings are available for flash photography.

## LIMITING ISO VALUES

All values from ISO 200 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: **1/(2f)**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Min. Shutter Speed**
- ▶ Select the desired value  
(**1/f**, **1/(2f)**, **1/(3f)**, **1/(4f)**, **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 200 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/(2f)**

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit (Flash)**
- ▶ Select the desired value  
(**1/f**, **1/(2f)**, **1/(3f)**, **1/(4f)**, **1/2000**, **1/1000**, **1/500**, **1/250**, **1/125**, **1/60**, **1/30**, **1/15**, **1/8**, **1/4**, **1/2**)

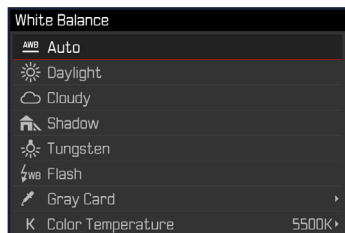
## WHITE BALANCE

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
 Flash	For flash photography

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

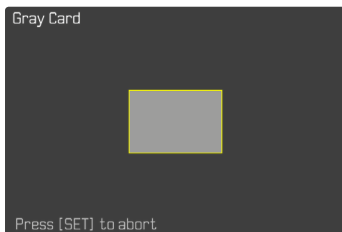


## MANUAL SETTING VIA METERING

### Graycard

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
  - The measurement is taken.

## Cancelling measurements

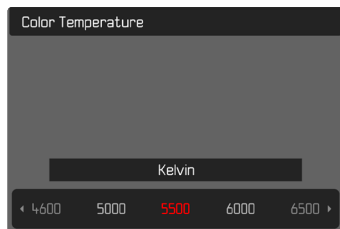
- ▶ Press the center button

## 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.

## 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

### SHUTTER TYPE

The Leica Q2 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: **Extended**

- ▶ Select **Electronic Shutter** in the main menu
- ▶ Select the desired setting  
(**Off**, **Always On**, **Extended**)

<b>Off</b>	Only the mechanical shutter is used. Working range: 120 s to 1/2000 s.
<b>Always On</b>	Only the electronic shutter function is used. Working range: 1 s to 1/40000 s
<b>Extended</b>	You can add the electronic shutter function if you need faster shutter speeds than can be achieved with the mechanical shutter. Working range: 120 s to 1/2000 s + 1/2500 s to 1/40000 s.



## 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.

## 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.



## 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** and **Field**. 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**)

These four “classic” modes are accessed via a relevant setting of the shutter-speed dial and the aperture ring. A correct setting for the menu item **Scene Mode** (see p. 113) is prerequisite for the use of **P**, **A**, **S** and **M**. The menu item **P-A-S-M** must be selected. Should one of the 13 object and situational automatic program variants be selected instead, then that setting will take precedence over the settings of the physical control elements. The shutter-speed dial and the aperture ring will in that case have no assigned function.

## SELECTING A MODE

The four operating modes are activated automatically via the following setting combinations:

	Setting via the shutter-speed dial	Setting via the aperture ring
<b>P</b>	<b>A</b>	<b>A</b>
<b>A</b>	<b>A</b>	manual setting (not <b>A</b> )
<b>S</b>	manual setting (not <b>A</b> )	<b>A</b>
<b>M</b>	manual setting (not <b>A</b> )	manual setting (not <b>A</b> )

- ▶ Select **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Set the shutter-speed dial to the relevant position
- ▶ Set the aperture ring to the relevant position

## 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the shutter-speed dial to the **A** position
- ▶ Turn the aperture ring to the **A** position
- ▶ 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)

## 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the shutter-speed dial to the **A** position
- ▶ 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





## 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the aperture ring to the **A** position
- ▶ Select the desired shutter speed
  - using the shutter-speed dial: in full increments
  - using the thumbwheel: fine tuning in 1/3 increments
- ▶ 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




- Fine tuning can alternatively be done via the status screen. This will be the only option if **Exp. Comp.** (see p. 56) is assigned to the thumbwheel.

## 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Set the desired exposure manually (using the shutter-speed dial and the aperture ring of the lens).
  - 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

### Notes

- 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. 103).
- The shutter-speed dial must be clicked to one of the engraved exposure shutter speeds.

## SETTING SHUTTER SPEEDS

The shutter speed is set in two steps.

- using the shutter-speed dial: in full increments
- using the thumbwheel: fine tuning in 1/3 increments

Shutter-speed dial	Thumbwheel
All settings from <b>2</b> to <b>1000</b>	Fine tuning the shutter speed in 1/3 EV increments, max. $\pm 2/3$ EV
Set to <b>1+</b>	Longer shutter speeds than 1 s (0.6 s to 120 s in 1/3 EV increments)
Set to <b>2000</b>	Shorter shutter speeds than 1/1000 s (1/1250 s to 1/40000 s in 1/3 EV increments)

### EXAMPLES FOR SHUTTER SPEED FINE TUNING SETTINGS

- set shutter speed 1/125 s + move the thumbwheel one click to the left = 1/100 s
- set shutter speed 1/500 s + move the thumbwheel two clicks to the right = 1/800 s

### Note

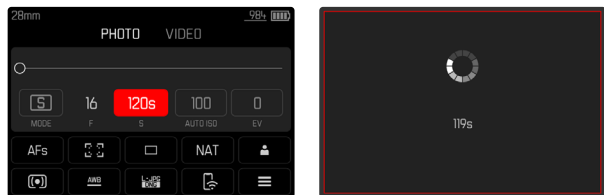
- Fine tuning can alternatively be done via the status screen. This will be the only option if **Exp. Comp.** (see p. 56) is assigned to the thumbwheel.



## LONG-TERM EXPOSURE

### FIXED SHUTTER SPEEDS

Your Leica Q2 allows shutter speeds up to 2 minutes in modes **S** and **M** (depending on the selected ISO setting). The remaining exposure time after shutter release is counted down in seconds on the display for shutter speeds greater than 1 s.



- ▶ Set the shutter-speed dial to **1+**
- ▶ Select the desired shutter speed  
(Must be done via fine tuning of the shutter speed, see p. 101)
- ▶ Shutter release

## T FUNCTION

In this setting, the shutter remains open after shutter release until the shutter button is pressed again (ax. 2 min depending on ISO setting).



- ▶ Set the shutter-speed dial to **1+**
- ▶ Set the aperture ring to a fixed value
- ▶ Select **T** as the shutter speed  
(Must be done via fine tuning of the shutter speed, see p. 101)
- ▶ Shutter release



## 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 **Electronic Shutter**, see p. 95. The T function is available only if **Electronic Shutter** is set to **Off** or **Extended**.
- The remaining exposure time after shutter release is counted down in seconds on the display for shutter speeds greater than 1 s.

## 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 **Exposure Preview** in the main menu
- ▶ 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 Zoom/Lock button, provided it was 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 Zoom/Lock button or assign both to the Zoom/Lock button. 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

With this option enabled, the camera stores the exposure value and the focus setting when the assigned button 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.
- The assigned button must be pressed again to remove the memory lock and to take a new measurement.



## EXPOSURE LOCK IN AF MODE

The metering functions are distributed as follows while the Zoom/Lock button is pressed and held:

Menu settings	Zoom/Lock button	Shutter button
AF-L + AE-L	Exposure and focus	No function
AF-L	Sharpness	Exposure
AE-L	Exposure	Sharpness

The shutter button will retain both functions, provided no exposure lock is done via the Zoom/Lock button.

### 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 Zoom/Lock button

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Zoom/Lock Button**
- ▶ Select the desired setting (AF-L + AE-L, AE-L, AF-L)
- ▶ Aim at the object
- ▶ Press and hold the Zoom/Lock button
  - The measurement is taken and saved.
  - A small padlock icon with the letters AE appear at the bottom left of the screen to signify that the exposure value was saved.
  - A green AF metering field signifies that the focusing was saved.
  - The exposure value/focusing remain until the same button is pressed again.
- ▶ 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. Similarly, the Zoom/Lock button will only have that one function (with an assignment of **AF-L + AE-L** or **AE-L**).

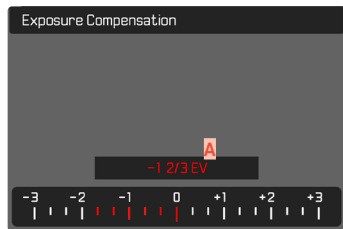


## EXPOSURE COMPENSATION

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 in  $1/3$ EV increments (EV: Exposure Value).



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

### Using thumbwheel control

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Customize Wheel**
- ▶ Select **Exp. Comp.**
- ▶ Set the desired value using the thumbwheel

### 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.

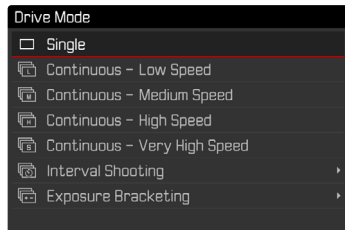
### Notes

- While setting the value, you can see the effect on the screen image, which becomes darker or lighter.
- 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.

## SHOOTING MODES

### CONTINUOUS SHOOTING

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

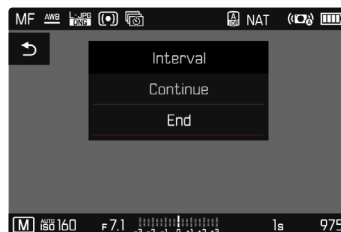
## Getting started

- ▶ Press the shutter button
  - The LCD panel will switch off automatically between recordings. Tapping the shutter button reactivates the LCD panel.
  - The remaining time until the next shoot and its number is displayed at the top right.



## Cancelling a running series of shots

- ▶ Press the **PLAY** button
  - 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.
- The camera may switch off and on again if “Auto power off” is set and no other camera operation occurs between the individual shots.
- 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

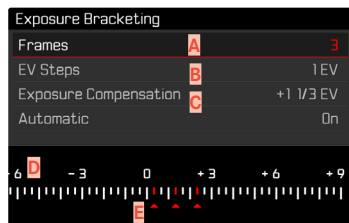
Make sure to check the battery for sufficient charge.

- 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.

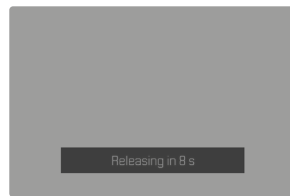
- ▶ Select **Drive Mode** in the main menu
- ▶ Select **Exposure Bracketing**
- ▶ Select the desired number of frames under **Number of Frames** in the submenu
- ▶ Select the desired exposure offset under **EV Steps** in the submenu
- ▶ Select the desired **Exposure Compensation** value in the submenu
  - 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.
- ▶ Select the desired setting under **Automatic** in the submenu
  - With the factory setting in place (**On**), the entire exposure series will run after the shutter button is pressed once; when the setting is **Off**, each picture must be taken individually.
- ▶ Take one or several shots by pressing the shutter button

## 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 **Min. Shutter Speed** 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.

## 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 **Self Timer** 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 taping 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 available only for single frame shooting and for bracketing.
- The function remains active until another function is selected from the **Self Timer** submenu.

## SPECIAL SHOOTING MODES

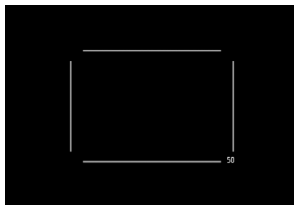
### DIGITAL ZOOM

Three cropped section sizes are available in addition to the Summilux 28 f/1.7 ASPH. image section. They are similar to the focal lengths 35 mm, 50 mm and 75 mm.

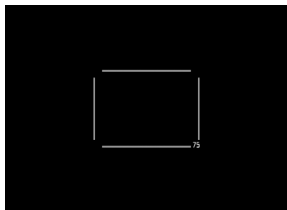
#### 35 mm



#### 50 mm



#### 75 mm



### PERMANENT SETTING

- ▶ Select **Digital Zoom** in the main menu
- ▶ Select the desired setting

### DIRECT ZOOM CHANGE

- ▶ Press and hold the Zoom/Lock button
  - A frame appears around the image section on screen, indicating the final image size.
  - Pressing the Zoom/Lock button will toggle the display between 28 mm (full screen), 35 mm, 50 mm and 75 mm.
  - The selected increment will remain set until the next change.

### Notes

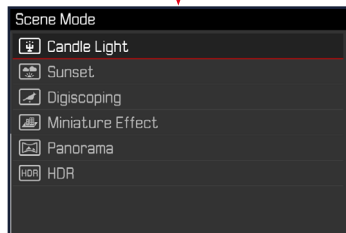
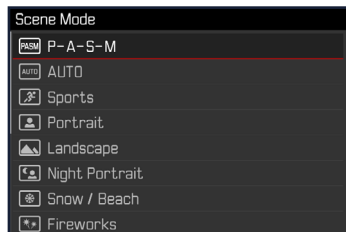
- The relevant setting must be selected via the menu if the Zoom/Lock button has a different function assigned (direct access, see p. 56).
- The desired cropped section is displayed for DNG recordings, but the entire 28 mm image field will be saved. That will allow a later editing of the full image.
- Only an enlarged cropped section will be displayed and stored for JPG images. A higher zoom value means a lower resolution as shown in the following table. Cropped sections can also be created using editing software.

	28 mm	Digital Zoom 35 mm	Digital Zoom 50 mm	Digital Zoom 75 mm
L-JPG	<b>47 MP</b>	30 MP	15 MP	7 MP
M-JPG	<b>24 MP</b>	15 MP	8 MP	3 MP
S-JPG	<b>12 MP</b>	8 MP	4 MP	2 MP



## SCENE MODE

13 automatic program variants are available under the menu item **Scene Modes**. All 13 offer automatically controlled shutter speed and aperture for extra easy photography (as with the “normal” automatic program **P**), as well as a number of other functions to suit the selected scene type. These may include the ISO setting or focusing. Some of the automatic variants can edit the shots and save the final result as JPG files with special effects.



- ▶ Select **Scene Mode** in the main menu
- ▶ Select the desired setting

- **AUTO**: Automatic snapshot function for general use
- 9 scene modes to match the special requirements of common scene types:
  - **Sports**, **Portrait**, **Landscape**, **Night Portrait**, **Snow / Beach**, **Fireworks**, **Candlelight**, **Sunset**, **Digiscoping**
- 3 additional “special” modes:
  - **Miniature Effect**: Limitation of the sharpness range to one horizontal or vertical stripe within the image field
  - **Panorama**: Automatic creation of panorama pictures
  - **HDR**: Automatic combination of multiple pictures taken with different exposure values

The following sections offer detailed information about these three functions.

### Notes

- The selected program will remain active until a different program is selected (even after the camera is switched off).
- The menu item Scene Mode will reset to **P-A-S-M** if the shooting mode is changed (Photo/Video).
- The program shift function and some of the menu items are unavailable.
- The shutter-speed dial and the aperture ring are without function.
- A fixed camera setup on a tripod is recommended for the **Digiscoping** setting.
- Exposure preview (see p. 103) is active in all programs.

## MINIATURE EFFECT

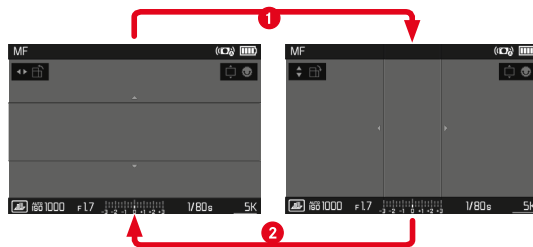
The image effect will be similar to a close-up shot with the characteristically very low depth of field. Normal sized objects will appear like a model landscape in the image.

The in-focus areas can be limited optionally to a horizontal or vertical stripe. The width and position of these stripes can be adjusted within the image field.

- ▶ Select **Scene Mode** in the main menu
- ▶ Select **Miniature Effect**
  - A frame around the area that should be in focus appears in the screen image.

### Note

- When the auxiliary displays are deactivated, the frame will only be visible as long as the shutter button is held at the first pressure point. The position and width settings will still function as described.



### Changing the frame directionality

from horizontal to vertical

- ▶ Press the directional pad left/right

from vertical to horizontal

- ▶ Press the directional pad up/down

### Changing the frame position

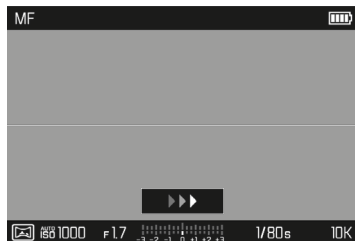
- ▶ Press the directional pad in the relevant direction

### Changing the frame width

- ▶ Turn the thumbwheel to the left/right  
(to the left = narrower, to the right = wider)

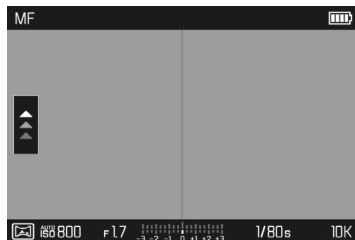
## PANORAMA IMAGES

Leica Q2 can capture traditional horizontal, as well as vertical panorama shots.



### Toggle between landscape or portrait mode

- ▶ Press the directional pad  
(up/down = portrait, left/right = landscape)



- ▶ Select **Scene Mode** in the main menu
- ▶ Select **Panorama**
  - Auxiliary displays appear on screen:
    - a white horizontal/vertical line
    - a progression display indicating the direction
- ▶ Align the camera in such a way that the desired left/bottom edge of the image is not all the way at the left/bottom of the screen image
- ▶ Press and hold the shutter button
- ▶ Pan the camera evenly in the indicated direction along the white auxiliary line
  - Pictures are taken automatically and in quick succession.
  - The image picture is canceled if the camera is panned too slowly or too fast, or if it is tilted too much and a relevant notification will appear on screen.
- ▶ Release the shutter button to stop the picture series
  - The camera generates a single image from the picture series.





## Notes

- When the auxiliary displays are deactivated, the auxiliary line will only be visible as long as the shutter button is held at the first pressure point.
  - The height of the final panorama image depends on how steady the camera is held during the vertical pan.
  - The max. panning angle is approx. 180°.
  - Panorama pictures are always taken in automatic program mode, no matter what the settings for the shutter-speed dial and the aperture ring are.
  - Regardless of the current focal length setting, panorama pictures are always taken with 28 mm.
  - Panorama pictures are always stored in **JPG** file format regardless of the current menu setting.
  - Panorama pictures cannot be taken with a flash.
  - The resolution of a panorama picture depends on the direction of the picture and number of pictures taken.
  - Sharpness, white balance and exposure are set to optimal values for the first shot. That is why the final panorama picture may not be in perfect focus or have ideal brightness if there are significant changes in the distance between camera and object or the ambient light while the picture is taken.
  - Some objects in the picture may appear distorted or there may be visual transitions, because the panorama picture is composed of a series of individual exposures.
  - Panorama shots are not available for slow shutter speeds (>1/60s).
- Panorama pictures may not be possible for the following object types, under the following exposure conditions or the individual images may not be joined up correctly if:
    - Single-color objects or objects with a uniform pattern (sky, beach, etc.)
    - Moving objects (people, pets, vehicles, waves, flowers swaying in the wind, etc.)
    - Objects with changing colors or patterns (e.g. a TV image)
    - Dark locations
    - Objects illuminated by uneven, flickering light sources (e.g. fluorescent lamps, candlelight, etc.)

## HDR

**HDR** generates a picture in which the “overlay” of three different exposures (-2 EV/0 EV/+2 EV) reproduces an improved image of lighter and darker parts of the object, i.e. with less overexposure in the highlights and more definition in the darkest areas.

Due to the consecutive exposures, this operating mode is best suited for immobile objects or those with very little movement, e.g. landscapes. We recommend using a tripod for HDR pictures because of the slower shutter speeds, and specifically in low ambient light.

- ▶ Select **Scene Mode** in the main menu
- ▶ Select **HDR**

## 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 SF 40. Other flash units, which only have a positive center contact, can be safely fired via the Leica Q2, 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 **WB** flash setting.

### Important

- The use of incompatible flash units with your Leica Q2 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.
- Use a tripod to prevent blurring at slow shutter speeds. Alternatively, you can select a higher sensitivity.

## ATTACHING THE FLASH UNIT

- ▶ Switch off the camera and flash unit
- ▶ Pull off the accessory shoe cover and store it in a safe place
- ▶ 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
- ▶ Release the lock as needed
- ▶ Detach the flash unit
- ▶ Replace the accessory shoe cover

### Note

- Make sure that the accessory shoe cover is always in place when no accessory is attached (e.g. a flash unit).

## FLASH EXPOSURE METERING (TTL METERING)

In conjunction with system-compatible flash units (see p. 117), the camera offers a fully automated flash mode, which is also available in the exposure modes Aperture Priority and Manual.

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.





## HSS (HIGH SPEED SYNC.)

### Automatic flash activation at **fast** shutter speeds

A fully automated, camera-controlled HSS flash mode for all shutter speeds and all exposure modes is available in the Leica Q2 for use with system-compatible flash units (see p. 117). It is activated by the camera automatically if the selected or calculated shutter speed is faster than the sync speed (1/180 s).

#### Note

- The range for HSS flashes is significantly smaller than for TTL flashes.

## FLASH MODES

Select one of the three available operating modes.

- Automatic
- Manual
- Long-term exposure

### **A** AUTOMATIC FLASH ACTIVATION

That is the default flash mode. The flash unit will fire automatically if poor lighting conditions would mean slower shutter speeds, which could result in blurred images.

### **MANUAL FLASH ACTIVATION**

This mode is suitable for backlit pictures in which the main subject does not fill the entire frame and is in shadow, or in situations where a fill-in flash will moderate sharp contrasts (e.g. in direct sunlight). The flash will fire each time a picture is taken, regardless of prevailing lighting conditions. The flash intensity depends on the metered ambient brightness: in poor light it is the same output as in automatic mode, with output decreasing with increasing brightness. The flash will then work as a fill-in light, e.g. to light up dark shadows in the foreground or backlit objects, and to create more balanced overall lighting.



## ⚡Ⓢ AUTOMATIC FLASH ACTIVATION AT SLOWER SHUTTER SPEEDS (LONG-TERM SYNCHRONIZATION)

This mode ensures appropriately exposed, brighter dark backgrounds and bright foreground.

The shutter speed is not extended beyond 1/30 s in the other flash modes to minimize the risk of blurring. This may mean, however, that pictures with flash exposure can end up with objects in the background not illuminated by the flash and therefore being underexposed. In this mode, slower shutter speeds (up to 30 s) are permitted to avoid this effect.

- ▶ Select **Flash Settings** in the main menu
- ▶ Select **Flash Mode**
- ▶ Select the desired setting
  - The currently active mode is displayed on screen.



## 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 Exposure**). This may result in apparent contradictions, e.g. the picture of a vehicle being overtaken by its own light trail. This camera alternatively allows synching with the end of exposure (**End of Exposure**). 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 Exposure**

- ▶ Select **Flash Settings** in the main menu
- ▶ Select **Flash Sync**
- ▶ Select the desired setting (**Start of Exposure**, **End of Exposure**)
  - 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/(2f)**

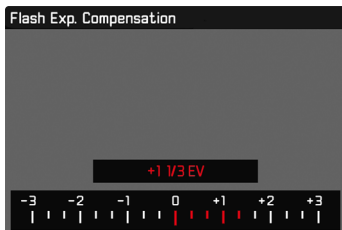
- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Shutter Speed Limit (Flash)**
- ▶ Select the desired value (**1/f**, **1/(2f)**, **1/(3f)**, **1/(4f)**, **1/2000**, **1/1000**, **1/500**, **1/250**, **1/125**, **1/60**, **1/30**, **1/15**, **1/8**, **1/4**, **1/2**)

## 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.



## 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 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).
- **Flash Exp. Compensation** is unavailable, if flash units with an own compensation function are used (e.g. Leica SF 58 or Leica SF 60). A compensation value set on the camera would in that case have no effect.
- 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.



## 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.

### Note

- It is recommended to use a different exposure metering method than **Spot** in flash photography.





## 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

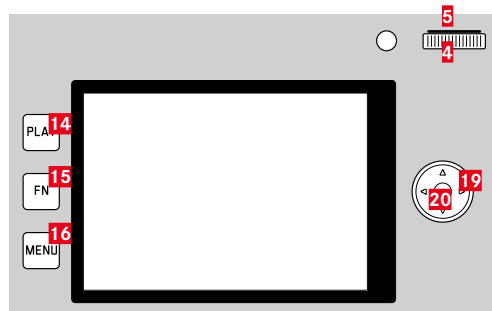
The switchover between shooting and review mode, as well as most other actions can be completed using gesture or key control. Please see p. 41 for more information about the available gestures.

### 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.
- The histogram and clipping displays are available only when viewing the full size picture, but not during zooming or in the overview.

## CONTROL ELEMENTS IN REVIEW MODE

### CONTROL ELEMENTS ON THE CAMERA



**14** PLAY button

**15** FN button

**16** MENU button

**4** Thumbwheel

**5** Thumbwheel button

**13** Zoom/Lock button

**19** Directional pad

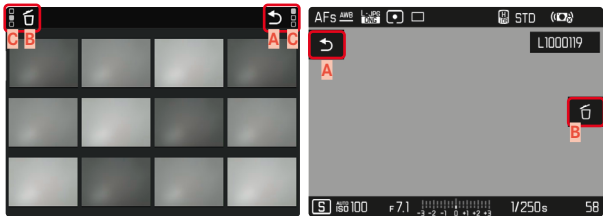
**20** Center button

## 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)

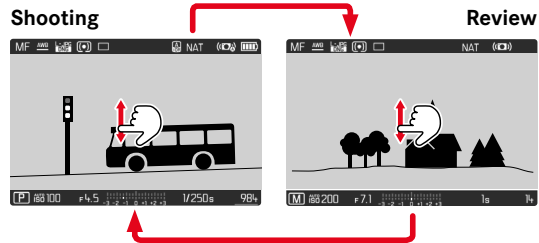


- A** Control element “Go back”
- B** Control element “Delete”
- C** Display of the relevant button

## 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

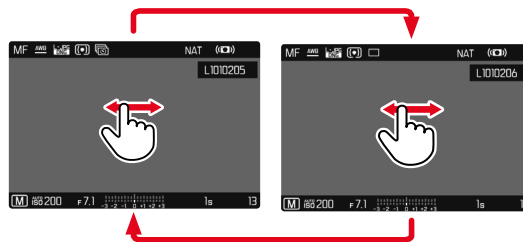
## SELECTING/SCROLLING THROUGH IMAGES

The shots are visually arranged in a horizontal reel. The sorting will be strictly chronological. 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



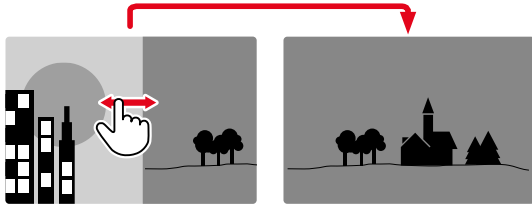
#### Using button control

- ▶ Press the directional pad left/right



## 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

With the factory settings in place, recorded pictures will be displayed without the information in the header and footer lines for an unobstructed view of the image.



- ▶ Press the center button
  - The info bars appear (header and footer line always appear/disappear together in Playback/Review mode).
  - The displays for **Histogram** and **Clipping** will appear if these functions are activated.

## DISPLAYING ASSIST FUNCTIONS

The display of histogram and clipping in review/playback mode can be set separately from the relevant settings for the shooting mode.

- ▶ Select **Play Mode Setup** in the main menu
- ▶ Select **Histogram/Clipping**
- ▶ Select **On/Off**

### Notes

- The clipping display is not available in video mode.
- The assist functions **Grid** and **Level Gauge** are not available in review mode.

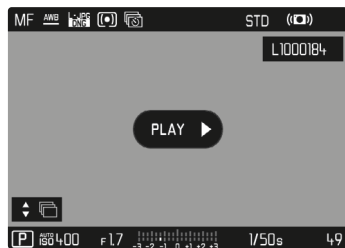
## PICTURE SERIES REVIEW


Serial and interval shootings often produce a large number of individual images. It would be very difficult to find other pictures that are not part of a series if every image of all these series was displayed individually. Organizing the images in groups creates more clarity in Review mode.

Factory setting: **Off**

- ▶ Select **Play Mode Setup** in the main menu
- ▶ Select **Group display mode**
- ▶ Select **On/Off**

All images in all series are displayed individually if **Off** is selected. The images are grouped in series and only one representative image will be displayed if **On** is selected. Only that one representative image will be displayed and all other images in that series are hidden during scrolling.



The representative image is shown with **PLAY** in the center and  at the bottom left.

There are two options for viewing the images in a group: manual scrolling or automatic playback. Automatic playback is the default setting.

## UNINTERRUPTED PLAYBACK OF THE PICTURE SERIES

The images in a group can be played back from start to finish without interruption. This may be very helpful to get a better idea of the processes or conditions rendered than if the images were scrolled manually.

- ▶ Tap **PLAY** ▶

or

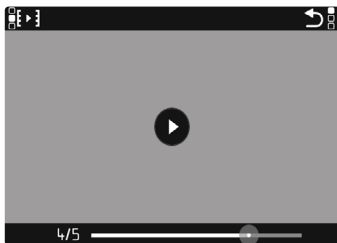
- ▶ Press the center button
  - Auto Review commences.

A prompt screen with additional functions can be accessed while playback is running.

- ▶ Tap anywhere on the LCD panel

or

- ▶ Press the center button
  - Playback stops, the current picture in the series is displayed. Various control elements appear on screen.

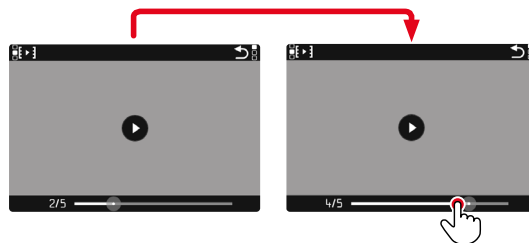


### Note

- The control elements disappear after about 3s. Touching the LCD panel or pressing the center button will cause them to be displayed again.

## JUMPING TO A SPECIFIC PICTURE IN THE GROUP

- ▶ Tap the Playback/Review status bar in the desired position



## RESUMING PLAYBACK/REVIEW

While the control elements are visible:

- ▶ Tap anywhere on the LCD panel

or

- ▶ Press the center button



## SAVE AS A VIDEO

The image series can additionally be saved as a video.

- ▶ Starting and stopping playback/review
  - The control elements appear.

- ▶ Tap

or

- ▶ Start playback

- ▶ Press the **FN** button
  - The prompt screen for video creation appears.

- ▶ Select **Yes/No**

- **Yes**: A video is created

- A progress screen for the video creation is displayed briefly (while the data is being processed). It also offers the option of canceling the process by pressing the center button.
- Once video creation is complete, the first frame of the new video is displayed.

- **No**: Revert to the same picture of the (still paused) automatic review

## SCROLLING THROUGH THE INDIVIDUAL PICTURES OF A SERIES

The images in a picture series can also be viewed individually. Switch to the manual scrolling function to do so.



- ▶ Press the directional pad up/down

- The information displays disappear in full-screen mode.
- When the information displays are activated, will appear at the bottom left of the image.

- ▶ Press the directional pad left/right

or

- ▶ Swipe to the left or right

## Returning to standard Playback/Review mode

- ▶ Press the directional pad up/down

- is displayed at the bottom left of the image.

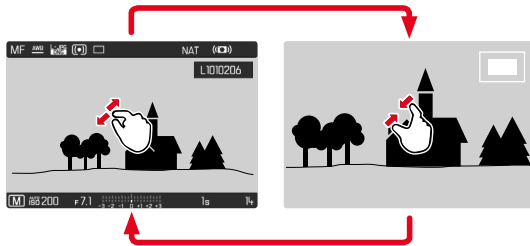
## Notes

- The review will be limited to the current picture series for as long as you are scrolling in that series, which also applies to the over-view display of 12 or 30 thumbnails.
- The images of a series are marked with in the header line, those of an **Interval Shooting** shoot by a .

## CROPPED SECTION ZOOM

You can zoom in to any section of an image for closer inspection. You have a five-step zoom factor available via the thumbwheel, while zooming is stepless if you use touch control.

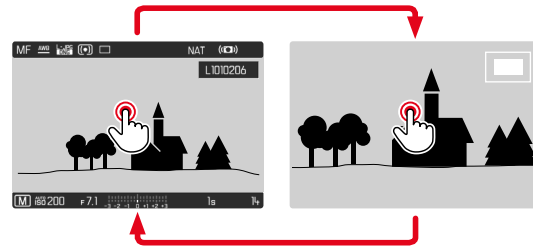
Using touch control



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



- ▶ Move the position of an enlarged cropped section by swiping
  - The rectangle within the frame at the top right indicates 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 thumbwheel  
(to the right: increase magnification, to the left: decrease magnification)

or

- ▶ Press the thumbwheel button
  - Toggles between the third zoom increment at the tap position and standard full screen view.
- ▶ Press the directional pad to move the cropped section anywhere in the enlarged image
  - 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.

- ▶ Press and hold the **PLAY** button while turning the thumbwheel

## Notes

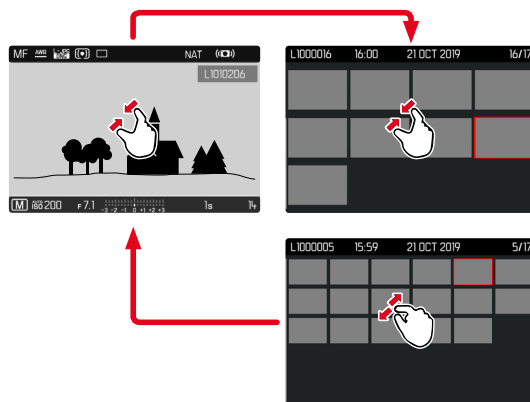
- It may not be possible to enlarge pictures taken with other camera types.
- Video recordings cannot be enlarged.

## 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



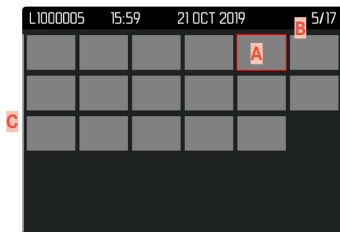
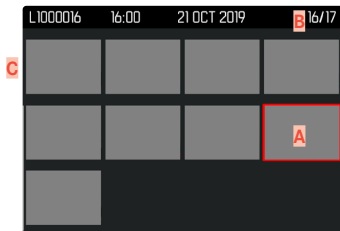
- ▶ Two-finger pinch
  - The display toggles from 12 to 30 thumbnails.

### Viewing other images

- ▶ Swipe up or down

## Using button control

- ▶ Turn the thumbwheel to the left
  - 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.

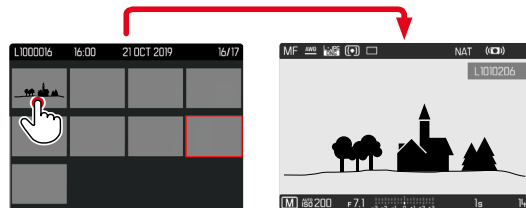
## Navigating between images

- ▶ Press the directional pad in the relevant direction
- or
- ▶ Press and hold the **PLAY** button while turning the thumbwheel

## Displaying the image in full size

### Using touch control

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



### Using button control

- ▶ Turn the thumbwheel to the right
- or
- ▶ Press the thumbwheel button / the **PLAY** button / the center 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**
  - 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.

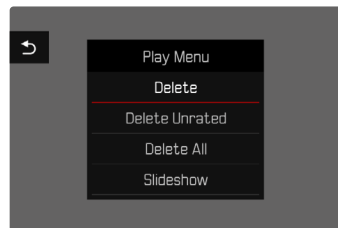
### Removing a tag

- ▶ Press the function button **4**
  - The ★ marking disappears.

## 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.



## QUICK ACCESS TO DELETE FUNCTIONS

All functions of the “Play menu” can be assigned to the **FN** button. That way, you can access the delete functions you use most frequently with a single button push.

Factory setting: **Delete single**

- ▶ **Press and hold** the **FN** button
  - A list of functions of the “Play menu” will appear.



- ▶ Select the desired function
  - The function is assigned to the **FN** button.

The descriptions in the next few sections presume factory settings.


### Note

- The assigned function is independent of the current display mode; the delete functions overview can therefore be accessed directly in full screen display mode. That will not apply if the **FN** button controls an LCD panel control element (e.g. in the deletion screen).

## 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 center 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.**



## Canceling 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 be called up only by pressing the **MENU** button 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 thumbwheel to the left
  - 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 thumbwheel to the left
  - The Delete overview appears.




Any number of images can be selected in this view.


### Selecting images for deletion

- ▶ Select a image
- ▶ Press the center button/thumbwheel button


or

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

### Deleting the selected images

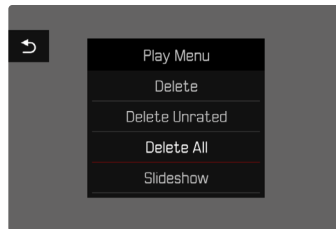
- ▶ Select the Delete icon   
(tap the icon directly or press the center button)
  - The prompt `Do you want to delete all marked files?` appears.
- ▶ Select `Yes`

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

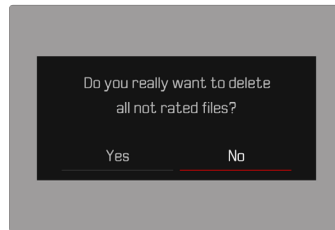
- ▶ Select the “Go back” icon   
(tap the icon directly or press the **PLAY** button)

## 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

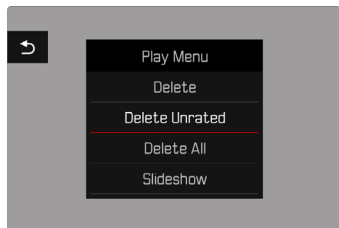
- The message `No valid picture to play.` appears after successful deletion. The same picture is displayed again if deletion was unsuccessful. When deleting several or all images, a notification screen may appear for the time needed to process the data.





## DELETING UNRATED IMAGES

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

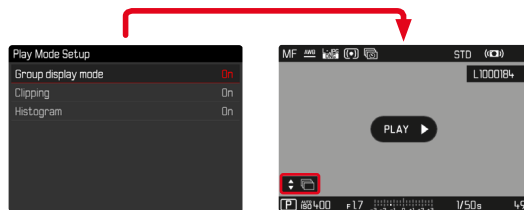


- The prompt **Do you really want to delete all not rated files?** appears.
- ▶ Select **Yes**
  - The LED will flash during the deletion process. The process may take a few seconds. The next marked image appears once deletion is complete. The message **No valid picture to play** appears if no other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

## DELETING PICTURE SERIES

Picture series can be displayed in groups for quick deletion. The pictures will have to be displayed in groups.

- ▶ Select **Play Mode Setup** in the main menu
- ▶ Select **Group display mode**
- ▶ Select **On/Off**



- ▶ Select the representative image



- ▶ Delete
  - All pictures in the picture series will be deleted.

## 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.

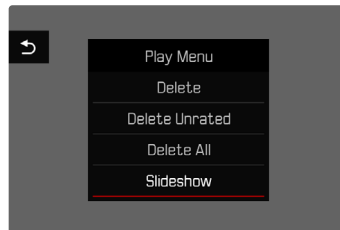
**Shutter button pressed**: The most recent frame is displayed for as long as the shutter button is pressed down.

### 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

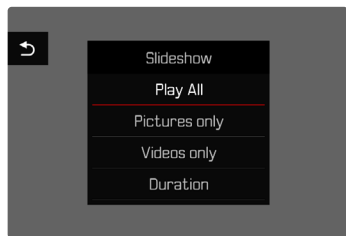
A slide show function is available in Review mode, in which the saved images are shown automatically in series. Choose to see all images (**Play All**), only photos (**Pictures Only**) or only videos (**Videos Only**) should be displayed. For photos, select how long each image should be displayed (**Duration**).



### 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.
- The **Slideshow** can also be assigned to the **FN** button for quick access (see p. 137).





## VIDEO SETTINGS

### 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. This choice allows an alignment with the intended use and available memory card capacity.

### VIDEO FORMAT

The following combinations of resolution and frame rate are available:

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



## AVAILABLE RESOLUTIONS

You can choose resolutions with the associated aspect ratios.

File Format	Available resolutions	
MOV + MP4	C4K	4096x2160
	4K	3840x2160
	FHD	1920x1080

## AVAILABLE FRAME RATES

Up to 9 different frame rates between 23.98fps and 180fps are available depending on the selected resolution. The frame rates 100fps to 180fps allow slow motion shots in varying speeds.

## SETTING THE VIDEO FORMAT

Factory setting: file format MP4, resolution 4K, frame rate 29.97fps

### MOV

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

### MP4

- ▶ Select **Video Format / Resolution** in the main menu
- ▶ Select **MP4**
- ▶ Select the desired resolution  
(**C4K**, **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.





## VIDEO STYLE

### IMAGE PROPERTIES

The image properties of video recordings can be changed 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**

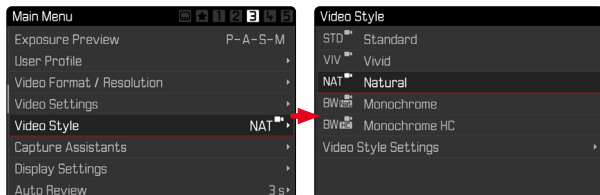
- ▶ Select **Video Style** in the main menu
- ▶ Select a profile

### MONOCHROME PROFILE

There are two additional profiles available for monochrome video recordings:

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

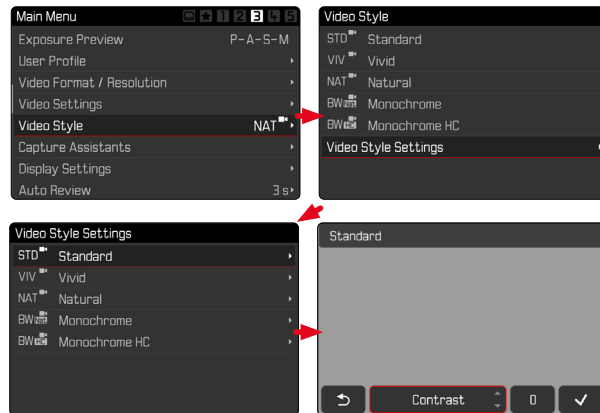
- ▶ Select **Video Style** in the main menu
- ▶ Select a profile



## CUSTOMIZING VIDEO PROFILES

These parameters can be adjusted for all available profiles (Saturation only for color profiles). See p. 52 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

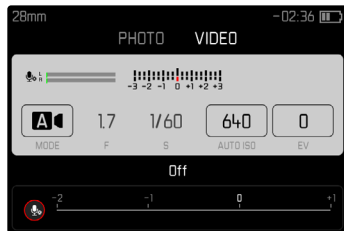
The sensitivity of the integrated microphone can be set.

Factory setting: **Medium**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Microphone Gain**
- ▶ Select the desired level  
(**High**, **Medium**, **Medium low**, **Low**, **Off**)

### 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.

Factory setting: **On**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Wind Noise Reduction**
- ▶ Select **On/Off**

## AUTOMATIC OPTIMIZATION

### VIDEO STABILIZATION

The stabilization function helps to reduce blurring for handheld recordings.

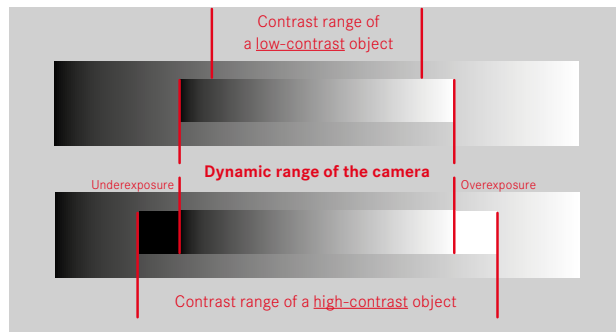
Factory setting: **On**

- ▶ Select **Video Settings** in the main menu
- ▶ Select **Video Stabil.**
- ▶ Select **On/Off**

## 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

### 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.

- ▶ Select **Format Card** in the main menu
- ▶ 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. 232).

## 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 9999 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 9999 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 **Edit File Name** in the main menu
  - 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. 49)
- ▶ 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 **Reset Image Numbering** in the main menu
  - 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.

## DATA TRANSFER

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

### Notes

- We recommend using a card reader for the transfer of large files.





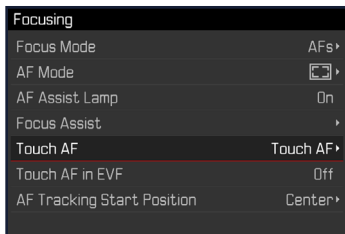
## PRACTICAL DEFAULT SETTINGS

### TOUCH AF

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

Factory setting: **Touch AF**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Touch AF**

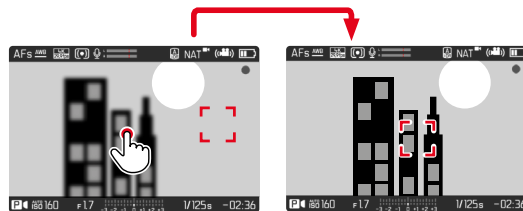


- ▶ Select **Touch AF**



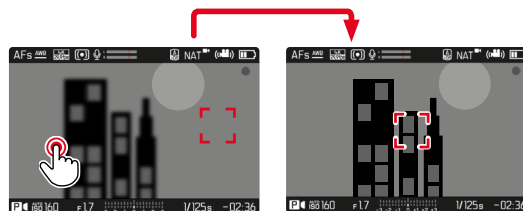
### Positioning the AF Metering Field

- ▶ 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**, **Tracking** and **Face Detection**.
- With **Spot**, **Field** or **Face 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 position of the AF metering field can only be reset with a double-tap, even if the setting is **Off**.

## TOUCH AF + SHUTTER BUTTON

The combination **Touch AF + Release** allows a direct placement of the AF metering field for immediate recording.

- ▶ Select **Focusing** in the main menu
- ▶ Select **Touch AF**
- ▶ Select **Touch AF + Release**
- ▶ Tap the LCD panel in the desired position

### Note

- The metering field cannot be reset as usual via a double tap if **Touch AF + Release** is activated.

## 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. AF Quick Setting (see p. 166) continues to be accessible. This function can also be disabled if that is not wanted (e.g. when focusing with the left eye).

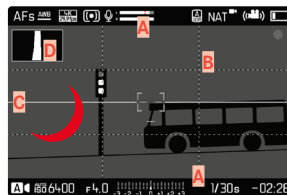
Factory setting: **Off**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Touch AF in EVF**
- ▶ Select the desired setting  
(**On**, **AF Quick Setting only**, **Off**)
- **On**
  - Positioning the AF metering field (tap)
  - Accessing the AF Quick Setting (tap and hold)
- **AF Quick Setting only**
  - Accessing the AF Quick Setting (tap and hold)
- **Off**

## AUXILIARY DISPLAYS

You can select a number of other displays in addition to the standard information contained in the header and footer to adapt the screen image to your needs. The following functions are available:

- Grid (only shooting mode, see p. 156)
- Level Gauge (only shooting mode, see p. 156)
- Histogram (see p. 157)



- A** Info Bars (= header and footer line)
- B** Grid
- C** Level gauge
- D** Histogram

- ▶ Select **Capture Assistants** in the main menu
- ▶ Select the desired function
- ▶ Select **On/Off**

### Note

- All displays are visible at all times in video mode.



## 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. 24).



### GRID

The grids divide the image frame into multiple fields. They facilitate pictorial composition and an exact camera orientation.

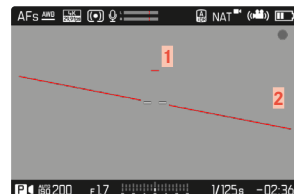


- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Grid**
- ▶ Select **On/Off**

### 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.

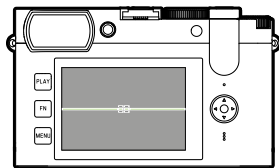
Deviations in relation to the longitudinal axis (i.e. when the camera is tilted up or down in the direction of view) are indicated by a short line in the center of the image (1). Deviations in relation to the transverse axis (when the camera is tilted to the left or right) are indicated by two long lines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



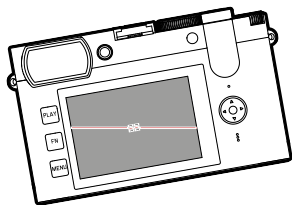
- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Level Gauge**
- ▶ Select **On/Off**

### Note

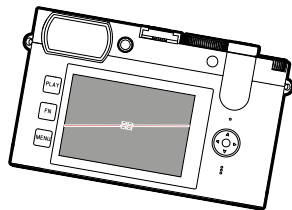
- In vertical format recordings, the camera will switch the aspect of the level gauge autonomously.



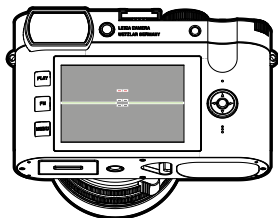
Correct alignment



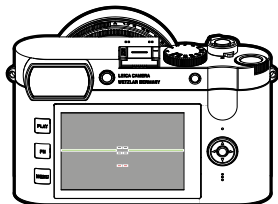
Tilted laterally to the left



Tilted laterally to the right



Tilted downward in the direction of view

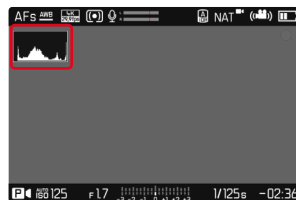


Tilted upward in the direction of view

## 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.



- ▶ Select **Capture Assistants** in the main menu
- ▶ Select **Histogram**
- ▶ Select **On/Off**

### 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”.



## MF ASSIST FUNCTIONS

### 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.

Factory setting: **Off**

- ▶ Select **Acoustic Signal** in the main menu
- ▶ 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

### Notes

- You can record up to 29 minutes of uninterrupted video.
- 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 (but cannot be longer than 29 min).
- 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.
- 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 screen image of video recordings with the Leica Q2 appears with corresponding frame depending on the selected resolution and aspect ratio.
- The clipping display is unavailable in video mode.

## START/EXIT VIDEO MODE

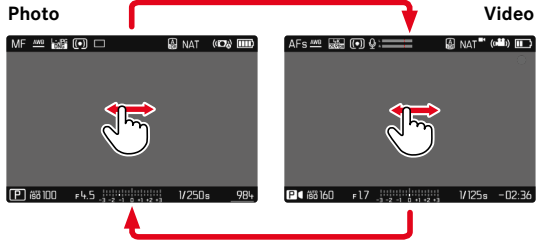
The camera will always be in Photo mode at initial activation or after a reset to factory settings. There are two methods for toggling between Photo and Video mode:

### Using button control

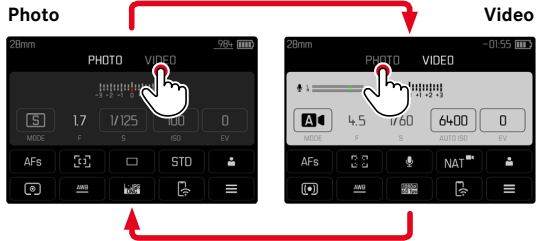
- ▶ Accessing the status screen
- ▶ Select **VIDEO**
  - The color of the status screen changes accordingly.
- ▶ Tap the shutter button



Variant 1



Variant 2



- The color of the status screen changes accordingly.

## 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

- Basic video settings (see p. 144) and **Digital Zoom** (see p. 179) must be configured before recording.
- Access to menu functions (including direct access) is limited during video recording.



## FOCUSING

Your Leica Q2 allows automatic as well as manual focusing. There are 2 operating modes and 5 metering methods available for automatic focusing.

### 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** is in use. Continuous focusing can be suppressed by using a metering memory lock.

- ▶ Press and hold the AF/MF release button
- ▶ Turn the focus ring to the **AF** position
- ▶ Start video recording
- ▶ Controlling the autofocus (see p. 163)

### TAKING VIDEOS WITH MF

Focusing is done manually via the focus setting ring.

- ▶ Press and hold the AF/MF release button
- ▶ Turn the focus ring away from the **AF** position
- ▶ Use the focus ring to manually focus on the object

## AUTOFOCUS MODES

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

Factory setting: **AFs**

- ▶ Select **Focusing** in the main menu
- ▶ Select **Focus Mode**
- ▶ Select the desired setting (**AFs**, **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. 154 for additional information.

- ▶ Tap the LCD panel in the desired position
  - Focusing is done after the touch.

### SUPPRESSING CONTINUOUS FOCUSING

The area in the AF metering field will be focused continuously if **AFc** is in use. This is done automatically during recording, without having to tap and hold the shutter button. This type of focusing is significantly smoother than focusing accessed via the shutter button, as jumps are avoided.

Continuous focus adjustments can be suppressed by initiating a metering memory lock. The Zoom/Lock button must have **AF-L** or **AF-L + AE-L** assigned (see p. 56).

#### Suppressing continuous focusing

- ▶ Press and hold the Zoom/Lock button
  - The camera stores the focus setting.

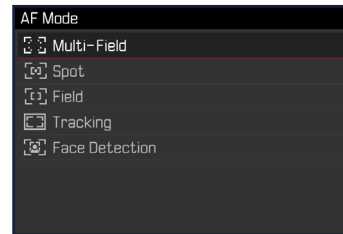
#### Returning to continuous focusing

- ▶ Press and hold the Zoom/Lock button
  - Automatic focusing is engaged again.

## 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**, **Tracking**, **Face 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.

## 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 Zoom/Lock button (provided the function **AF-L** or **AF-L + AE-L** is assigned.)
  - 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**

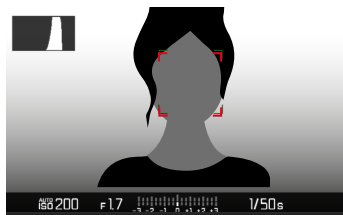
You can specify the starting point for tracking.

<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 Tracking Start Position**
- ▶ Select the desired setting  
(**Last Position**, **Recall**, **Center**)

## FACE DETECTION

In this metering method, the Leica Q2 automatically detects faces in the image field. The focus is set automatically on the faces closest to the camera. Field metering is used if no faces are detected.





## AF QUICK SETTING

The AF Quick Setting allows quick changes to the metering field size during field metering.

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**/**Face Detection** is set.



### ADJUSTING THE METERING FIELD SIZE

(only **Field** and **Face Detection**)

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

## MF ASSIST FUNCTIONS

### ENLARGEMENT IN AF MODE

Magnification is available before the start of a recording. In that case, the behavior is the same as in Photo mode (see p.87). 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. 65). This function is unavailable while recording.



## SHIFTING THE AF METERING FIELD

All AF metering methods permit shifting the AF metering field before focusing. Continuous focusing during recording (with **AFc**) tracks the AF-metering field.

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

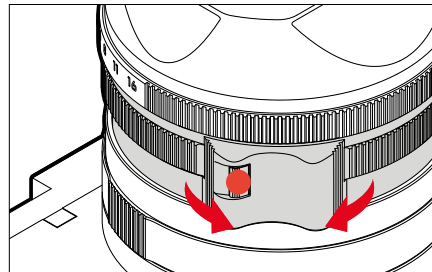
### Notes

- 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** and **Field**. 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.

- ▶ Move the focus ring out of the **AF** position  
(press and hold the AF/MF lock release)



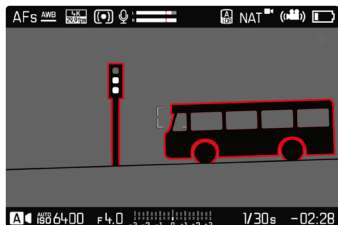
- ▶ Start video recording
- ▶ Turn the focus ring to select the desired focusing

## 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. The color can be user-specified.



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

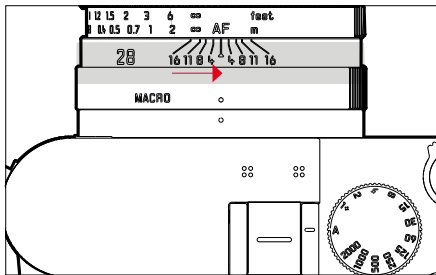
## ENLARGEMENT IN MF MODE

Magnification is available before the start of a recording. In that case, the behavior is the same as in Photo mode (see p. 89). This function is unavailable while recording.



## MACRO FUNCTION

The working range for the focus setting can be switched quickly and easily from the standard focus range (30 cm to infinity) to the macro range (17 cm to 30 cm) using the macro setting ring. AF and MF mode are available in both ranges.



- ▶ Turn the macro setting ring until the alignment point is set to **MACRO**
  - The distance scales on the focus ring change when the focus ranges change.

## ISO SENSITIVITY

The ISO setting covers a range between ISO 50 and ISO 6400, 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: **Auto ISO**

## FIXED ISO VALUES

ISO values between 50 and 6400 can be selected in 8 increments.

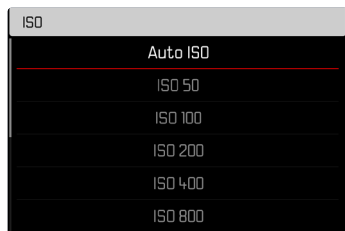
- ▶ Select **ISO** in the main menu
- ▶ Select the desired value

### 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.



- ▶ 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 focal length related settings ( $1/f$ ,  $1/(2f)$ ,  $1/(3f)$ ,  $1/(4f)$ ) and fixed max. shutter speeds  $1/2$  s and  $1/2000$  s available for that purpose.

In the focal length-specific settings, the camera will only switch to a higher sensitivity if the shutter speed would fall below the set threshold due to low light.

### LIMITING ISO VALUES

All values from ISO 200 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:  $1/(2f)$

- ▶ Select **Auto ISO Settings** in the main menu
- ▶ Select **Min. Shutter Speed**
- ▶ Select the desired value  
( $1/f$ ,  $1/(2f)$ ,  $1/(3f)$ ,  $1/(4f)$ ,  $1/2000$ ,  $1/1000$ ,  $1/500$ ,  $1/250$ ,  $1/125$ ,  $1/60$ ,  $1/30$ ,  $1/15$ ,  $1/8$ ,  $1/4$ ,  $1/2$ )

### Note

- 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.

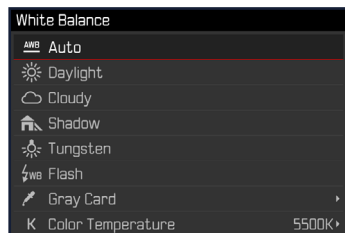
## WHITE BALANCE

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:

 <b>Daylight</b>	For outdoor shootings in sunlight
 <b>Cloudy</b>	For outdoor shootings in cloudy conditions
 <b>Shadow</b>	For outdoor shootings with the main subject in shadow
 <b>Tungsten</b>	For indoor shootings with (predominantly) incandescent lamp light
 <b>Flash</b>	For shooting with flash


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

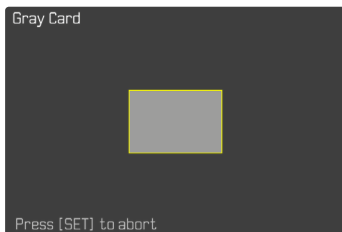


## MANUAL SETTING VIA METERING

### 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
  - The measurement is taken.

## Cancelling measurements

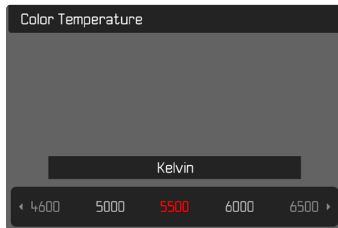
- ▶ Press the center button

## 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.

## 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

### 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.

### 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.





## 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** and **Field**. 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**)

These four “classic” modes are accessed via a relevant setting of the shutter-speed dial and the aperture ring. A correct setting for the menu item **Scene Mode** (see p. 180) is prerequisite for the use of **P**, **A**, **S** and **M**. The menu item **P-A-S-M** must be selected. Where the fully automated mode **AUTO** is selected instead, then that setting takes precedence over settings on the physical control elements. The shutter-speed dial and the aperture ring will in that case have no assigned function.

### Notes

- 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. 144).

## SELECTING A MODE

The four operating modes are activated automatically via the following setting combinations:

	Setting via the shutter-speed dial	Setting via the aperture ring
<b>P</b>	<b>A</b>	<b>A</b>
<b>A</b>	<b>A</b>	manual setting (not <b>A</b> )
<b>S</b>	manual setting (not <b>A</b> )	<b>A</b>
<b>M</b>	manual setting (not <b>A</b> )	manual setting (not <b>A</b> )

- ▶ Select **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Set the shutter-speed dial to the relevant position
- ▶ Set the aperture ring to the relevant position

## FULLY AUTOMATIC EXPOSURE SETTING – P

### AUTOMATIC PROGRAM – P

The exposure is controlled by an automatic shutter speed and aperture setting.



- ▶ Select **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the shutter-speed dial to the **A** position
- ▶ Turn the aperture ring to the **A** position
- ▶ 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the shutter-speed dial to the **A** position
- ▶ 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Turn the aperture ring to the **A** position
- ▶ Select the desired shutter speed
  - using the shutter-speed dial: in full increments
  - using the thumbwheel: fine tuning in 1/3 increments
- ▶ Start video recording

### Note




- Fine tuning can alternatively be done via the status screen. This will be the only option if **Exp. Comp.** (see p. 56) is assigned to the thumbwheel.

## 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 **Scene Mode** in the main menu
- ▶ Select **P-A-S-M**
- ▶ Set the desired exposure manually (using the shutter-speed dial and the aperture ring of the lens).
  - 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

### Notes

- The shutter-speed dial must be clicked to one of the engraved exposure shutter speeds.

## SETTING SHUTTER SPEEDS

The shutter speed is set in two steps.

- using the shutter-speed dial: in full increments
- using the thumbwheel: fine tuning in 1/3 increments

Shutter-speed dial	Thumbwheel
All settings from <b>2</b> to <b>1000</b>	Fine tuning the shutter speed in 1/3 EV increments, max. $\pm 2/3$ EV
Set to <b>1+</b>	Longer shutter speeds than 1 s (0.6 s to 120 s in 1/3 EV increments)
Set to <b>2000</b>	Shorter shutter speeds than 1/1000 s (1/1250 s to 1/40000 s in 1/3 EV increments)

### EXAMPLES FOR SHUTTER SPEED FINE TUNING SETTINGS

- set shutter speed 1/125 s + move the thumbwheel one click to the left = 1/100 s
- set shutter speed 1/500 s + move the thumbwheel two clicks to the right = 1/800 s

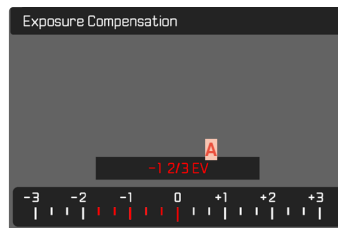
### Notes

- Fine tuning can alternatively be done via the status screen. This will be the only option if **Exp. Comp.** (see p. 56) is assigned to the thumbwheel.
- The max. available shutter speed is limited by the set frame rate (**Video Resolution**).

## EXPOSURE CONTROL

### EXPOSURE COMPENSATION

Exposure compensation values can be set in the range  $\pm 3$  EV in 1/3 EV increments (EV: Exposure Value).



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



### Using thumbwheel control

- ▶ Select **Customize Control** in the main menu
- ▶ Select **Customize Wheel**
- ▶ Select **Exp. Comp.**
- ▶ Set the desired value using the thumbwheel

### 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

- While setting the value, you can see the effect on the screen image, which becomes darker or lighter.
- The set exposure compensation is indicated by a mark on the exposure compensation scale in the footer line (see p. 26).
- 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.

## SPECIAL SHOOTING MODES

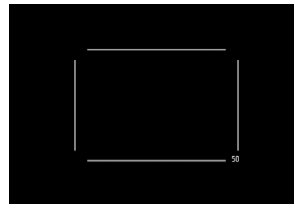
### DIGITAL ZOOM

Three cropped section sizes are available in addition to the Summilux 28 f/1.7 ASPH. image section. They are similar to the focal lengths 35 mm, 50 mm and 75 mm.

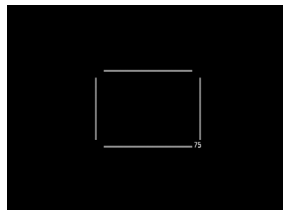
#### 35 mm



#### 50 mm



#### 75 mm



### PERMANENT SETTING

- ▶ Select **Digital Zoom** in the main menu
- ▶ Select the desired setting



## DIRECT ZOOM CHANGE

- ▶ Press and hold the Zoom/Lock button
  - A frame appears around the image section on screen, indicating the final image size.
  - Pressing the Zoom/Lock button will toggle the display between 28 mm (full screen), 35 mm, 50 mm and 75 mm.
  - The selected increment will remain set until the next change.

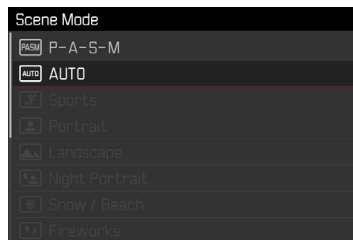
### Notes

- The relevant setting must be selected via the menu if the Zoom/Lock button has a different function assigned (direct access, see p. 56).
- The screen image is magnified to the selected image section during recording.
- The use of digital zoom may result in reduced image quality.

## FULLY AUTOMATIC VIDEO RECORDING

In fully automated video mode, exposure is controlled by the camera just like for recordings in automatic program mode (P). Additionally, all other exposure-relevant factors like ISO values and exposure metering are controlled automatically.

- ▶ Select **Scene Mode** in the main menu
- ▶ Select **AUTO**



### Notes

- The selected program will remain active until a different program is selected (even after the camera is switched off).
- The menu item Scene Mode will reset to **P-A-S-M** if the shooting mode is changed (Photo/Video).
- The program shift function and some of the menu items are unavailable.
- The shutter-speed dial and the aperture ring are without function.





## PLAYBACK MODE

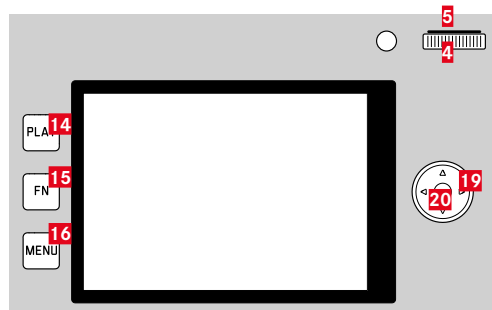
Playback mode is used to display and manage the stored recordings. The switchover between shooting and playback mode, as well as most other actions can be completed using gesture or key control. Please see p. 41 for more information about the available gestures.

### 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.
- Video recordings cannot be enlarged.

## CONTROL ELEMENTS IN PLAYBACK MODE

### CONTROL ELEMENTS ON THE CAMERA



**14** PLAY button

**15** FN button

**16** MENU button

**4** Thumbwheel

**5** Thumbwheel button

**13** Zoom/Lock button

**19** Directional pad

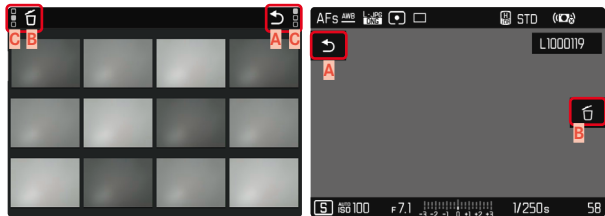
**20** Center button

## 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)

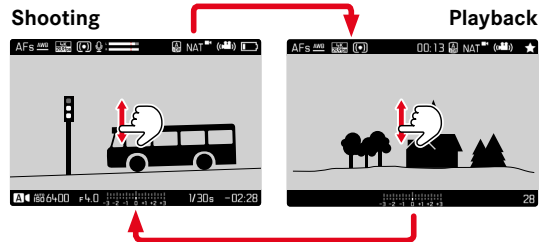


- A** Control element “Go back”
- B** Control element “Delete”
- C** Display of the relevant button

## 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



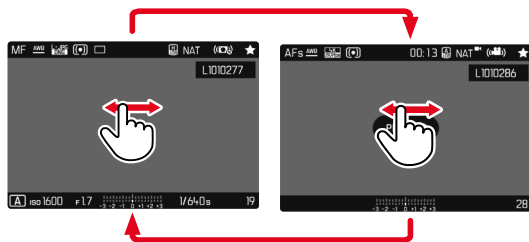
## SELECTING/SCROLLING THROUGH IMAGES

The shots are visually arranged in a horizontal reel. The sorting will be strictly chronological. 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

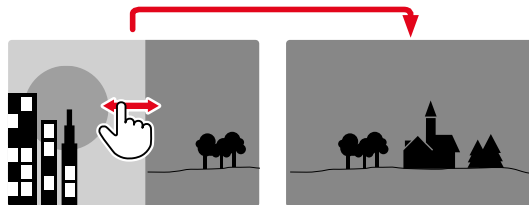


#### Using button control

- ▶ Press the directional pad left/right

## 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

Video recordings are always rendered with header and footer and with **PLAY** ▶ on screen. No other auxiliary displays will appear.



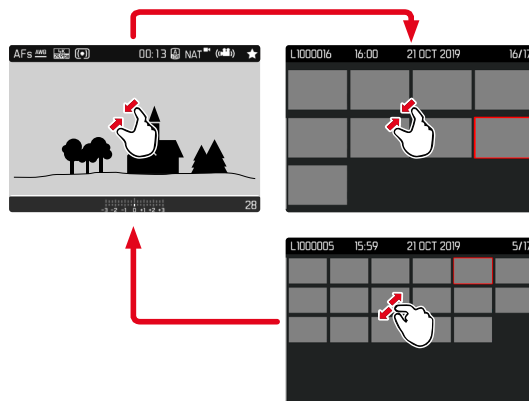
All information is hidden during the playback/rendering of a video recording.

## 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.

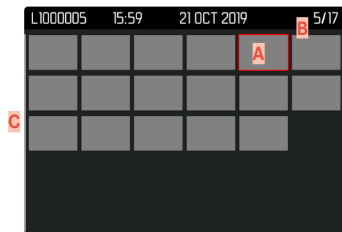
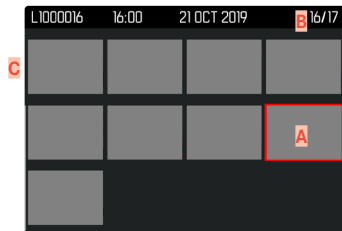
Viewing other images

- ▶ Swipe up or down



## Using button control

- ▶ Turn the thumbwheel to the left
  - 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.

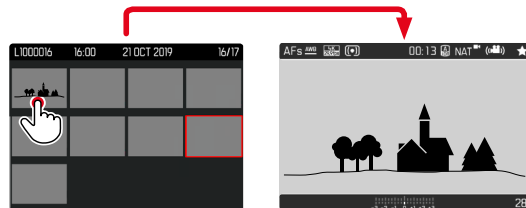
## Navigating between images

- ▶ Press the directional pad in the relevant direction
- or
- ▶ Press and hold the **PLAY** button while turning the thumbwheel

## Displaying the recording in full size

### Using touch control

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



### Using button control

- ▶ Turn the thumbwheel to the right
- or
- ▶ Press the thumbwheel button / the **PLAY** button / the center 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**
  - 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.

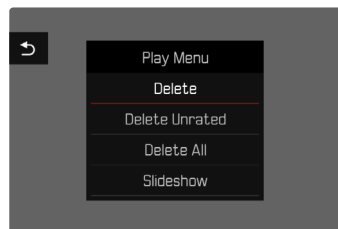
### Removing a tag

- ▶ Press the function button **4**
  - The ★ marking disappears.

## 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.

## QUICK ACCESS TO DELETE FUNCTIONS

All functions of the “Play menu” can be assigned to the **FN** button. That way, you can access the delete functions you use most frequently with a single button push.

Factory setting: **Delete single**

- ▶ **Press and hold** the **FN** button
  - A list of functions of the “Play menu” will appear.



- ▶ Select the desired function
  - The function is assigned to the **FN** button.

The descriptions in the next few sections presume factory settings.


### Note

- The assigned function is independent of the current display mode; the delete functions overview can therefore be accessed directly in full screen display mode. That will not apply if the **FN** button controls an LCD panel control element (e.g. in the deletion screen).

## 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 center 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.**

## Cancelling 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 be called up only by pressing the **MENU** button 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 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 thumbwheel to the left
  - 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 thumbwheel to the left
  - The Delete overview appears.






Any number of recordings can be selected in this view.


### Selecting recordings for deletion

- ▶ Select a image
- ▶ Press the center button/thumbwheel button


or

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

### Deleting the selected recordings

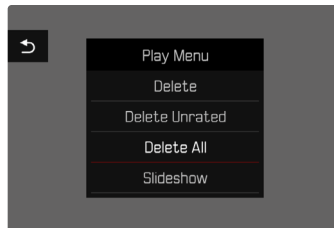
- ▶ Select the Delete icon   
(tap the icon directly or press the center button)
  - The prompt `Do you want to delete all marked files?` appears.
- ▶ Select `Yes`

### Cancelling a deletion and return to the normal playback mode

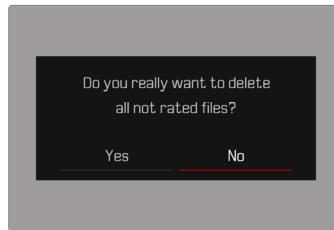
- ▶ Select the “Go back” icon   
(tap the icon directly or press the **PLAY** button)

## DELETING ALL RECORDINGS

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



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



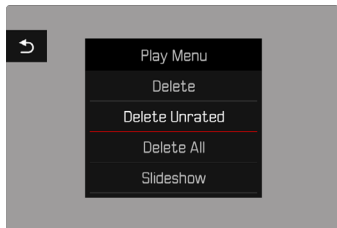
- ▶ Select `Yes`

### 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

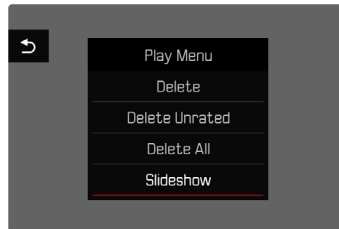
- ▶ Press the **MENU** button
- ▶ Select **Delete Unrated** in the play menu



- 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

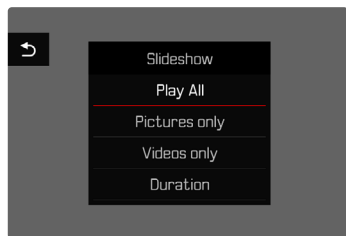
A slide show function is available in playback mode, in which the saved images are shown automatically in series. Choose to see all images (**Play All**), only photos (**Pictures Only**) or only videos (**Videos Only**) should be displayed. For photos, select how long each image should be displayed (**Duration**).



## 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

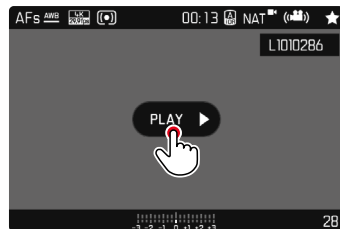
- ▶ Tap the shutter button
  - The camera switches to the relevant mode.

### 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.
- The **Slideshow** can also be assigned to the **FN** button for quick access (see p. 137).

## VIDEO PLAYBACK

**PLAY** appears on screen if you have selected a video file in playback mode.



## START PLAYBACK

- ▶ Press the center button
- or
- ▶ Tap **PLAY**



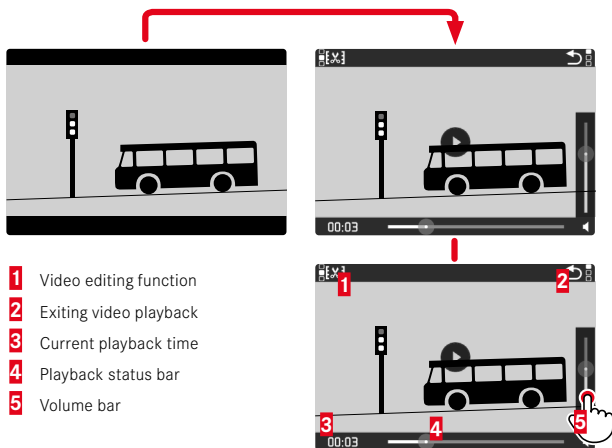


## ACCESSING THE CONTROL ELEMENTS

The control elements are displayed when playback is stopped.

### Using touch control

- ▶ Tap anywhere on the LCD panel



- 1 Video editing function
- 2 Exiting video playback
- 3 Current playback time
- 4 Playback status bar
- 5 Volume bar

### Using button control

- ▶ Press the center button

#### Note

- The control elements disappear after about 3s. Tapping the LCD panel again or pressing a button will make them reappear.

## PAUSE PLAYBACK

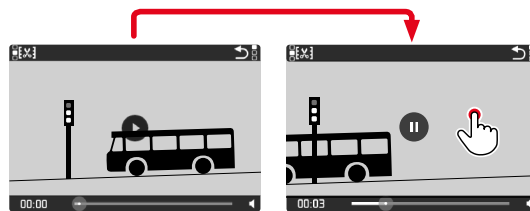
- ▶ Tap anywhere on the LCD panel
- or
- ▶ Press the center button

## 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:

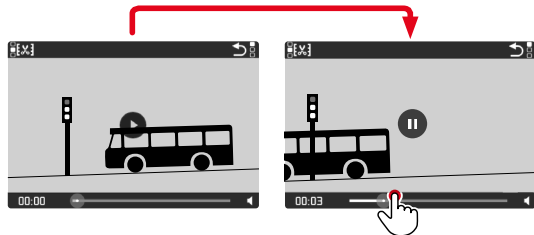
- ▶ Press the center button



## NAVIGATE TO ANY POINT IN THE FILE

While the control elements are visible:

- ▶ Tap the Playback status bar at the desired position

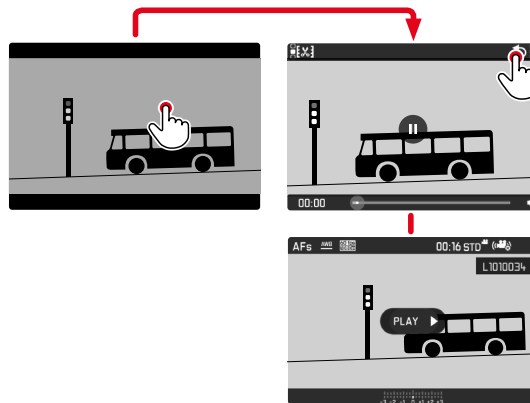


## END PLAYBACK

Using touch control

While the control elements are visible:

- ▶ Tap the “Go back” icon ↶



Using button control

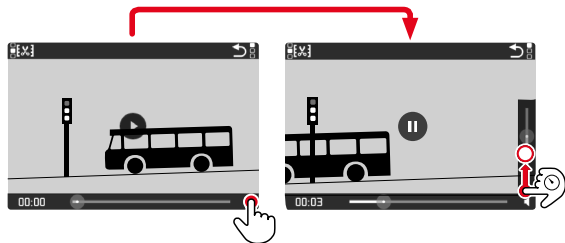
- ▶ Press the **PLAY** button

## 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

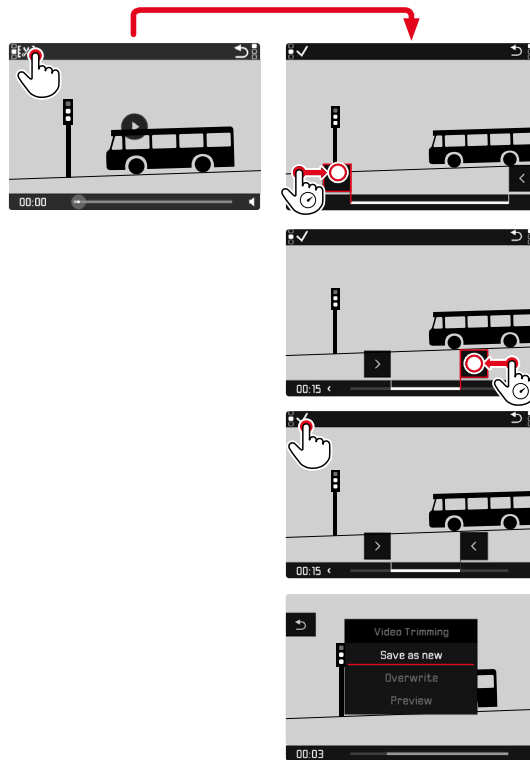
- ▶ Press the directional pad up/down
  - The volume bar appears.
- ▶ Press the directional pad up (louder) or down (quieter)

### Note

- Sound is switched off at the lowest part of the bar and the volume icon changes to .

## VIDEO EDITING

### Using touch control



### 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 directional pad 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 <u>additionally</u> 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

### 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)**
  - 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. 198).

## 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.

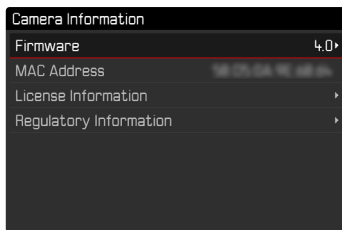
Leica will notify you of any new updates, once you have registered your camera. Users of Leica FOTOS will also be automatically notified about firmware updates for their Leica cameras.

There are two options for installing firmware updates.

- conveniently via the Leica FOTOS app (see p. 202)
- directly via the camera menu

## Finding the currently installed firmware version

- ▶ Select **Camera Information** in the main menu
  - The current firmware version is displayed in the **Firmware** menu item.



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!

### 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
- ▶ 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 **Firmware**
- ▶ 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 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.







## 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
- Downloading firmware updates

- ▶ 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.

### 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.
- ▶ Select **Pairing**
- ▶ Follow the Leica FOTOS instructions
  - The camera will be added to the list of known devices.
  - 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

### 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**
- ▶ 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.

## SHUTTING DOWN THE CONNECTION

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 Q2 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 **Pixel Mapping** in the main menu
- ▶ 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

### Note

- This function is unavailable if the sensor is warmed up.

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 <b>Auto Power Off</b>
	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
	Tracking-AF with AFc activated	Use AFs or MF
Preview of the recorded images ( <b>Auto Review</b> ) 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
<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 recording (4K) or serial exposures 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 to 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
	One of the scene modes is currently active	Select the <b>P-A-S-M</b> setting under <b>Scene Mode</b>
	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
<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
<b>Review and photo management</b>		
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>Auto Review</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
<b>Picture quality</b>		
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
Macro Function	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 Format / 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
	Microphone was deactivated while recording	Activate the microphone
Flickering or horizontal stripes in the video recording	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

## DYNAMIC DIRECT ACCESS

Available settings ●

Factory settings ●

	Favorites menu	FN button	Thumbwheel button	Page
Drive Mode	● ●	●	●	82
Interval Shooting	●	●	●	108
Exposure Bracketing	●	●	● ●	110
Self-timer	●	● ●	● ●	111
Focusing	● ●	●	●	76, 81, 83-90, 154, 162-168
Focus Mode	● ●	●	●	83, 162
AF Mode	●	●	●	84, 163
Focus Aid	●			89, 168
Auto Magnification		●	●	89
Focus Peaking		●	●	89, 168
AF Tracking Start Position	●			85, 165
Exposure Metering	● ●	● ●	● ●	96, 173
Exposure Compensation	●	● ●	●	106, 110, 178
ISO	●	●	● ●	91, 169
Auto ISO Settings	●	●	●	92, 170
White Balance	●	● ●	● ●	93, 171
Gray card	●	●	●	94, 172
Color Temperature		●	●	95, 173
Photo File Format	●	● ●	● ●	66

	Favorites menu	FN button	Thumbwheel button	Page
JPG Settings	●			67–69
JPG Resolution	●	●	●	67
Film Style	● ● ●	●	●	67
iDR	●	●	●	70
Scene Mode	●	● ●	● ●	98–100, 113–117, 175–177, 180
Digital Zoom	●	●	●	112, 179
Optical Image Stabilization	●	●	●	70
Electronic Shutter	●	●	●	95
Flash Settings	●	●	●	121–123
Exposure Preview	●	●	●	103
User Profile	● ● ●	● ●	● ●	57–59
Video Format / Resolution	●	●	●	144–145
Video Settings	●			148–149
Microphone Gain		●	●	148
Video Style	●			146–147
Capture Assistants				77–80, 155–157
Display Settings	●			62–64
EVF-LCD	●	●	●	62
LCD Brightness	●			63
EVF Brightness	●			63
EVF Frame Rate	●			64
Auto Review				141

	Favorites menu	FN button	Thumbwheel button	Page
Customize Control	●			54–56
Edit Favorites	●			54
Wheel Assignment	●	●	●	56, 106, 178
Zoom/Lock button	●	●	●	56, 105
Leica FOTOS	● ●	● ●	●	202
Edit File Name				73, 152
Reset Image Numbering				74, 153
Power Saving				61, 64
Acoustic Signal				65
Play Mode Setup				130, 140
Format Card	●	●	●	71, 150
Magnification *		●	●	87, 90

\* The **Magnification** function is only available via direct access and not via the main menu.



STATIC DIRECT ACCESS	Status screen	Zoom/Lock button	Thumbwheel	Page
Exposure Compensation			● ●	106, 110, 178
Digital Zoom		● ●		112, 179
Exposure lock (AF-L + AE-L, AE-L, AF-L)		●		56, 85, 105, 163-164
Focus Mode	●			83, 162
AF Mode	●			84, 163
Drive Mode*	●			82
Microphone Gain**	●			148
Film Style*	●			67
Video Style**	●			146-147
User Profile	●			57-59
Exposure Metering	●			96, 173
White Balance	●			93, 171
Photo File Format*	●			66
Video Format / Resolution**	●			144-145
Leica FOTOS	●			202

\* in PHOTO mode only

\*\* in VIDEO mode only

4K ..... 145

## A

A (Aperture priority) ..... 99, 176  
 Accessories..... 3  
 Acoustic signals ..... 65  
 AE-L ..... 104  
 AF assist lamp ..... 81, 87, 158  
 AFc.....83, 162  
 AF confirmation.....65, 81, 158  
 AF-L ..... 104  
 AF/MF, toggling..... 83  
 AF mode.....83, 162  
 AF Quick Setting ..... 86  
 AFs.....83, 162  
 Akademie, Leica ..... 233  
 Aperture.....98, 175  
 Aperture priority ..... 99, 176  
 App ..... 202  
 Aspect ratio (video) ..... 145  
 Assist function ..... 77, 155  
 Assist functions, AF.....81, 87, 158, 166  
 Assist functions, MF.....89, 168  
 Autofocus.....83, 162  
 Auto ISO.....92, 170  
 Automatic playback.....191  
 Automatic program ..... 99, 176  
 Automatic review ..... 130, 141

Auxiliary displays.....77, 155

## B

Basic image settings (photo) ..... 66  
 Basic recording settings (video) ..... 144  
 Basic settings, camera..... 60  
 Basic settings, recording (video) ..... 144  
 Basic settings, shooting (photo) ..... 66  
 Brightness, EVF..... 63  
 Brightness, LCD panel..... 63  
 Button assignment ..... 55

## C

C4K..... 145  
 Camera information ..... 198  
 Camera, reset ..... 198  
 Care ..... 206  
 Carry strap..... 10, 30  
 Center button..... 39  
 Center-weighted metering..... 97, 174  
 Charger.....9, 30  
 Charge status, charger..... 31  
 Charge status, LCD panel..... 28  
 Charging the battery ..... 31  
 Clipping..... 79, 129, 185  
 Color profile ..... 68  
 Color rendering, EVF..... 64  
 Color rendering, LCD panel..... 64  
 Color saturation, image properties (photo)..... 67  
 Color saturation, image properties (video) ..... 146

Color settings, EVF.....	64	Disposal .....	6
Color settings, LCD panel.....	64	DNG .....	66
Color space.....	69	Drive mode.....	82, 107, 108
Color temperature.....	95, 173	Dynamic range.....	70, 149
Connection, mobile devices .....	202		
Contact. Leica.....	232	<b>E</b>	
Continuous shooting .....	107	Editing, video.....	195
Contrast, image properties (photo) .....	67	Electronic shutter.....	65, 95
Contrast, image properties (video) .....	146	Electronic shutter sound .....	65
Customer service .....	232	EVF .....	64
		Exposure.....	95, 173
<b>D</b>		Exposure, automatic .....	99, 176
Dark area optimization .....	70, 149	Exposure bracketing.....	110
Data management.....	71, 150	Exposure compensation.....	56, 106, 178
Data structure .....	72, 151	Exposure compensation, flash .....	123
Data transfer .....	75, 153	Exposure lock .....	56, 104
Date .....	51, 60	Exposure, long-term.....	102
Deactivation, LCD panel.....	64	Exposure, manual.....	100, 177
Deletion, photos.....	136	Exposure metering, flash.....	119
Deletion, recordings (video) .....	187	Exposure, metering methods .....	96, 173
Deletion, user profiles .....	57, 59	Exposure, modes .....	98, 175
Digiscoping effect .....	113	Exposure preview .....	103
Digital zoom .....	56, 112, 179	Exposure simulation.....	103
Diopter compensation.....	35	Exposure time, max.....	102
Direct access .....	55, 214	Eye sensor.....	63
Directional pad.....	39		
Displays .....	24, 26, 77, 155	<b>F</b>	
Display, settings.....	62	Face detection .....	86, 165
Display, standby.....	64	Factory settings .....	198

FAQ.....	208	Focus peaking.....	89, 168
Favorites, menu.....	46, 54, 214	Folder, creating new.....	74, 153
Favorites, photo.....	136	Folders.....	72, 151
Favorites, recordings (video).....	187	Folder structure.....	72, 151
FHD.....	145	Format.....	66, 144
Field metering.....	84, 164	Formatting, memory card.....	71, 150
File format.....	66, 144	Frame rate.....	145
File name.....	73, 152	Full HD.....	145
Files, RAW.....	66		
Film Style.....	68, 69	<b>G</b>	
Firing point, flash.....	121	General information.....	12
Firmware.....	14, 198	Gray Card.....	94, 172
Fixed ISO value.....	91, 169	Grid.....	78, 156
Flash.....	117		
Flash, control.....	121	<b>H</b>	
Flash, exposure compensation.....	123	HDR.....	110, 117
Flash, exposure metering.....	119	Highlight, image properties (photo).....	68
Flash, firing point.....	121	Highlight, image properties (video).....	146
Flash, operating mode.....	120	Highlight-Weighted, exposure.....	97, 174
Flash, range.....	122	Histogram.....	80, 157
Flash, setting.....	119, 120	Horizon.....	79, 156
Flash, synchronization.....	121	HSS.....	120
Flash units, compatible.....	117		
FN button.....	55, 214	<b>I</b>	
Focus assist.....	89, 168	iDR.....	71, 150
Focusing.....	83, 162	Image numbering.....	72, 151
Focusing, automatic.....	83, 162	Image numbering, reset.....	74, 153
Focusing, manual.....	88, 167	Image properties.....	67
Focusing, metering methods.....	84, 163	Image stabilization, picture.....	70
Focus mode.....	83, 162	Image stabilization, video.....	149

Individual button assignment .....	55
Info Bars.....	78, 156
Info profiles .....	77, 155
Information displays.....	77, 155
Information, regulatory.....	5
Inserting/removing the battery.....	32
Intelligent Dynamic Range.....	70, 149
Interval shooting .....	108
ISO Sensitivity.....	91, 169
ISO value, greatest.....	92, 170

## J

JPG.....	66
----------	----

## K

Keyboard.....	49
---------------	----

## L

Landscape exposure .....	115
Language .....	60
LCD panel .....	62
Legal information .....	4
Leica Academy.....	233
Leica Customer Care.....	232
Leica FOTOS.....	7, 202
Lens .....	8, 206
Lens hood .....	34
Level gauge.....	79, 156
Long-term exposure.....	102

## M

Macro.....	91, 169
Magnification, MF assist function.....	89
Magnification, recording mode (video) .....	166, 168
Magnification, review mode (photo) .....	133
Magnification, shooting mode (photo).....	87, 89
Magnifying glass .....	89
Main menu .....	46
Main switch.....	36
Manual exposure setting.....	100, 177
Manual focusing.....	88, 167
Maximum exposure time .....	102
Memory card.....	10, 13, 33, 71, 150, 207
Menu bar.....	50
Menu control.....	42
Menu language.....	60
Menu navigation.....	43, 47
Menu screen .....	42
Metering method, AF.....	84, 163
Metering method, exposure .....	96, 173
MF.....	88, 167
Microphone.....	148
Miniature effect.....	114
M (Manual exposure setting).....	100, 177
Mode, switching .....	160
Monochrome recording, video .....	147
Monochrome shooting (photo) .....	68
MOV.....	144
MP4 .....	144

Multi-field metering, exposure .....	97, 174
Multi-field metering, focusing.....	84, 164

**N**

Name, file.....	72, 73, 151, 152
Name, folder .....	72, 151
Navigation, menu .....	43, 47
Noiseless .....	65
Noise reduction.....	99, 102
Notes, legal.....	4
Number pad .....	49

**O**

Operating mode, exposure.....	98, 175
Operating mode, flash .....	120
Operation, customized.....	54
Optical image stabilization .....	70
Overview, parts .....	22

**P**

Panorama.....	115
Part Designations.....	22
P (automatic program).....	99, 176
Picture, interval.....	108
Picture series .....	107, 108, 110
Pixel Mapping.....	207
Playback mode.....	182
Playback, video .....	192
PLAY button .....	40
Portrait.....	113

Power off, automatic .....	61, 64
Power save.....	61
Power save mode .....	61
Preview .....	141
Problems.....	208
Profile, user.....	57

**Q**

Quick access.....	54, 55
-------------------	--------

**R**

Rating, photo.....	136
Rating, recordings (video).....	187
Raw data .....	66
Rechargeable battery, capacity.....	28
Rechargeable battery, notes .....	9, 12, 207
Recording, deleting (photo) .....	136
Recording, deleting (video).....	187
Recording, rating (photo).....	136
Recording, rating (video) .....	187
Recordings, tagging (video).....	187
Recording, tagging (photo).....	136
Regulatory information.....	5
Remote control .....	204
Repair.....	232
Replacement parts.....	3
Reset, camera .....	198
Reset, image numbering.....	74, 153
Resolution (photo).....	67
Resolution (video).....	145

Review, automatic (photo).....	141
Review mode.....	126

## S

Safety remarks.....	8
Saturation, image properties (photo).....	67
Saturation, image (video).....	146
Saving, energy.....	61
Scale.....	51
Scene mode.....	113
Scope of delivery.....	2
SD card.....	10, 13, 33, 71, 150, 207
Self-timer.....	111
Sensitivity, eye sensor.....	63
Sensitivity, ISO.....	91, 169
Sensor.....	10, 13
Service.....	232
Setting, LCD panel.....	62
Setting shutter speeds.....	101, 178
Settings, store.....	57
Shadow, image properties (photo).....	68
Shadow, image properties (video).....	146
Sharpness, image properties (photo).....	67
Sharpness, image properties (video).....	146
Shift.....	56
Shooting, continuous.....	107
Shooting Mode.....	82
Shooting mode (Video).....	160
Short cut.....	54, 55
Shutter button.....	37

Shutter, electronic.....	65, 95
Shutter release.....	37
Shutter speed.....	56, 98
Shutter-speed/aperture combination.....	98, 175
Shutter-speed dial.....	38
Shutter-speed priority mode.....	100, 177
Signals, acoustic.....	65
Silent.....	65
Silent operation.....	65
Slide show.....	141, 191
Smartphone.....	202
Sound.....	65, 195
Spot metering, exposure.....	97, 174
Spot metering, focusing.....	84, 164
S (Shutter speed priority mode).....	100, 177
Standby mode.....	61
Status screen.....	24, 26, 44
Storage.....	206
Submenu.....	47
Switching, mode.....	127, 160, 183
Switching on/off, camera.....	36
Sync point.....	121

## T

Tagging, recordings (photo).....	136
Tagging, recordings (video).....	187
Technical Data.....	226
T function.....	102
Thumbwheel.....	38, 56
Thumbwheel button.....	39, 55



Time.....	51, 60
Time lapse.....	108, 132
Time zone.....	61
Tones .....	65
Touch AF .....	76, 154
Touch control .....	41, 76, 154
Tracking .....	85, 164
Transfer, data .....	75, 153
Troubleshooting.....	208
TTL metering.....	117, 119

## U

Update, firmware.....	14, 198
User-defined operation .....	54
User profiles.....	57

## V

Video.....	160, 192
Video format .....	144
Video mode.....	160
Video stabilization .....	149
Video Style.....	146
Volume, acoustic signals .....	65
Volume, video.....	195

## W

Warning signal.....	65
Warranty .....	15
White balance .....	93, 171
Wi-Fi/WLAN.....	7

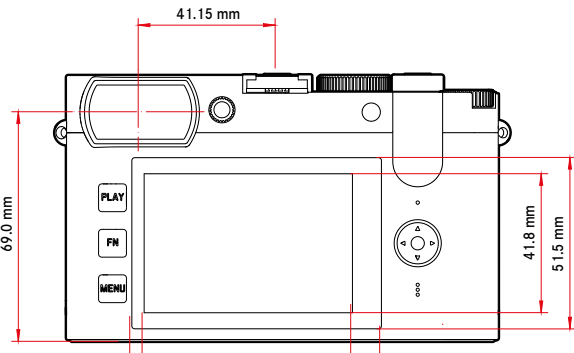
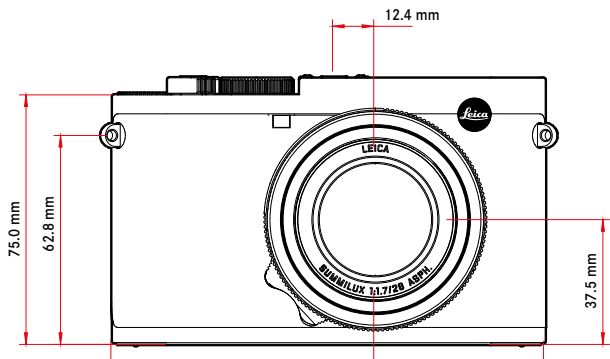
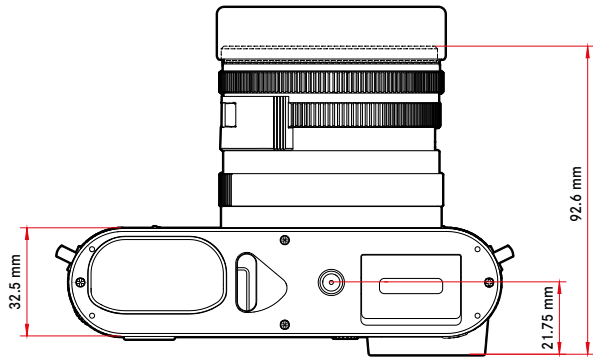
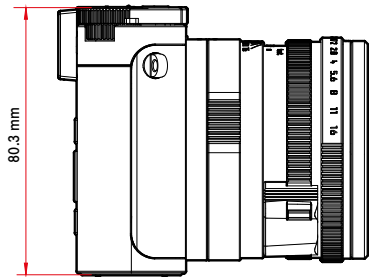
Wind noise reduction .....	148
----------------------------	-----

## Z

Zebra.....	79
Zoom.....	112, 179
Zoom/Lock button.....	40, 56







**CAMERA****Designation**

Leica Q2

**Camera type**

Digital 35 mm compact camera

**Type no.**

4889

**Order No.**

19 050 EU/JP/US, 19 051 ROW (black)

**Buffer memory**

DNG™: 14 shots

JPG: 25 shots

**Storage medium**

UHS-II (recommended), UHS-I, SD/SDHC/SDXC memory card

**Material**

Full metal housing: Magnesium die-cast, leather covering

Protection type IP52

**Operating conditions**

0°C to +40°C

**Interfaces**

ISO accessory shoe with additional control contacts for Leica flash units

**Tripod thread**

A 1/4 DIN 4503 (1/4") with stainless steel in the base

**Weight**

approx. 637 g (without battery), approx. 718 g (with battery)

**SENSOR****Sensor size**

50.4 MP total/47.3 MP actual

**Processor**

Leica Maestro series (Maestro III)

**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: MP4, MOV

**Image resolution**

DNG™	8368x5584 pixels (46.7 MP)
JPG	8368x5584 pixels (46.7 MP) 6000x4000 pixels (24 MP) 4272x2848 pixels (12.2 MP)

**File size**

DNG™: approx. 84.4 MB

JPG: depending on resolution and image content

Video: max. length: 29 min, max. file size: 96 GB

**Color depth**

DNG™: 14 bit

JPG: 8 bit

**Color space**

Picture: sRGB, ECI-RGB v2.0, Adobe RGB

Video: sRGB

**Video Resolution**

	RESOLUTION
C4K (17:9)	4096x2160
4K (16:9)	3840x2160
Full HD (16:9)	1920x1080

**Video frame rate / bit rate**

MOV	MOV C4K			
	29.97fps	4:2:2 / 10bit	ALL-I	400Mbps
	25 fps	4:2:2 / 10bit	ALL-I	400Mbps
	24 fps	4:2:2 / 10bit	ALL-I	400Mbps
	MOV 4K			
	29.97fps	4:2:2 / 10bit	ALL-I	400Mbps
	25 fps	4:2:2 / 10bit	ALL-I	400Mbps
	23.98fps	4:2:2 / 10bit	ALL-I	400Mbps
	MOV FHD			
	29.97fps	4:2:2 / 10bit	ALL-I	200Mbps
25 fps	4:2:2 / 10bit	ALL-I	200Mbps	
23.98fps	4:2:2 / 10bit	ALL-I	200Mbps	
MP4	MP4 C4K			
	24fps	4:2:0 / 8 bit	Long GOP	100Mbps
	MP4 4K			
	29.97fps	4:2:0 / 8 bit	Long GOP	100Mbps
	25 fps	4:2:0 / 8 bit	Long GOP	100Mbps
	24 fps	4:2:0 / 8 bit	Long GOP	100Mbps
	MP4 FHD			
	59.94fps	4:2:0 / 8 bit	Long GOP	28Mbps
	50 fps	4:2:0 / 8 bit	Long GOP	28Mbps
	29.97fps	4:2:0 / 8 bit	Long GOP	20Mbps
	25 fps	4:2:0 / 8 bit	Long GOP	20Mbps
	23.98fps	4:2:0 / 8 bit	Long GOP	24Mbps
	MP4 FHD Slow Motion			
	180 fps	4:2:0 / 8 bit	Long GOP	20Mbps
	150 fps	4:2:0 / 8 bit	Long GOP	20Mbps
120 fps	4:2:0 / 8 bit	Long GOP	20Mbps	
100 fps	4:2:0 / 8 bit	Long GOP	20Mbps	

**LENS****Designation**

Leica Summilux 28 f/1.7 ASPH., 11 lenses in 9 segments, 3 aspherical lens areas

**Lens filter thread**

E49

**Digital Zoom**

Optionally approx. 1.25x (equivalent to 35 mm), approx. 1.8x (equivalent to 50 mm) or approx. 2.7x (equivalent to 75 mm)

**Image stabilization**

Visual compensation system for photos and video recordings

**Aperture range**

F1.7 to F16 in 1/3 EV increments

**VIEWFINDER/LCD PANEL****Viewfinder (EVF)**

Resolution: 3.68 MP, 120 fps, magnification: 0.76x, aspect ratio: 4:3, exit pupil position: 20 mm, setting range +3/-4 dpt, with eye sensor for automatic switchover between viewfinder and LCD panel

**LCD panel**

3" TFT LCD, 1,036,800 dots, touch control available

**SHUTTER****Shutter type**

Mechanical central shutter or optional electronic shutter

**Shutter speeds**

Mech. shutter: 120 s to 1/2000 s

Electro. shutter function: 1 s to 1/40000 s

Flash Synchronization: up to 1/2000 s

**Shutter button**

Two-stage

(1st stage: Activation of the camera electronics including autofocus and exposure metering, 2nd stage: Taking the picture)

**Self-timer**

Delay time: 2 s or 12 s

## Drive Mode

Single	
Continuous - Low Speed	2fps
Continuous - Medium Speed	6 fps
Continuous - High Speed	10fps without AFc/AE
Continuous - Very High Speed	20fps with electro. shutter function without AFc/AE
Interval Shooting	
Exposure Bracketing	

## FOCUSING

### Working range

30cm to ∞

With macro setting: from 17cm

### 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

### Autofocus modes

Optional storing of AFs, AFc, AF setting, optional Touch AF

### Autofocus metering methods

Spot (can be shifted), Field (can be shifted and scaled), Multi-Field, Face Detection, Tracking

### Autofocus Metering Fields

255

## EXPOSURE

### Exposure metering

TTL (exposure metering through the lens), with working aperture

## 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

Various fully automated variants (Scene Mode): AUTO, Sport, Portrait, Landscape, Night Portrait, Snow/Beach, Fireworks, Candlelight, Sunset, Digiscoping, Miniature Effect, Panorama, HDR

### Exposure compensation

±3EV in 1/3EV increments

### Automatic bracketing

3 or 5 frames, graduations between shoots up to 3EV, in 1/3EV increments  
additional optional exposure compensation: up to ±3EV

### ISO sensitivity range

	Photo	Video
Auto ISO	ISO 100 to ISO 50000	ISO 100 – ISO 6400
Manual	ISO 50 to ISO 50000	ISO 50 – ISO 6400

### White balance

Automatic (Auto), default (Daylight, Cloudy, Shadow, Tungsten, Flash), manual metering (Graycard), manual color temperature settings (Color Temperature, 2000 K to 11500 K)

## FLASH EXPOSURE CONTROL

### Flash unit connector

Via the accessory shoe

### Flash sync time

↔ : 1/2000s, slower shutter speeds available, automatic changeover to TTL linear flash mode with HSS-compatible Leica system flash units if sync time is undercut



### **Flash exposure metering**

Using center-weighted TTL pre-flash metering with Leica flash units (SF 26, SF 40, SF 58, SF 60, SF 64) or with system-compatible flash units, remote controlled flash SF C1

### **Flash exposure compensation**

SF 40:  $\pm 2$  EV in 1/2 EV increments  
SF 60:  $\pm 2$  EV in 1/3 EV increments

### **EQUIPMENT**

#### **Microphone**

Stereo

#### **Speaker**

Mono

#### **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. 340/300 shots (LCD/EVF, to CIPA Standard)

#### **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



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.

### LEICA GERMANY

#### Leica Camera AG

Leica Customer Care  
Am Leitz-Park 5  
35578 Wetzlar  
Germany

**Phone:** +49 (0)6441 2080-189

**Fax:** +49 (0)6441 2080-339

**Email:** [customer.care@leica-camera.com](mailto:customer.care@leica-camera.com)

<https://leica-camera.com>

### YOUR NATIONAL REPRESENTATIVE

You will find the Customer Care department responsible for your locality on our homepage:

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



## LEICA ACADEMY

Have a look at our full seminar program with many interesting workshops on the topic of photography at:

<https://leica-camera.com/pl-PL/leica-akademie>