LEICA M11-D

INSTRUCTION MANUAL

M11-D/EN/2024/09/1.0/1

FOREWORD

Dear Customer,

We wish you a great deal of fun and success taking photographs with your new Leica M11-D. 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 M11-D whenever you need it at https://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 M11-D
- Lithium-ion rechargeable battery Leica BP-SCL7
- USB-C cable
- Camera bayonet cover
- Carry strap
- Quick Start Guide
- CE flyer
- Flyer (Leica account)
- Test certificate

* Subject to change with regard to construction and appearance.

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.

Important
All mentions of "EVF" or "Electronic Viewfinder" in this manual refer to the optional accessory Leica Visoflex **2**.
Using the older "Leica Visoflex" model with the Leica M11-D can – as a worst case scenario – result in irreparable damage to the camera and/or the Visoflex. Please contact Leica Customer Care if in doubt.

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.

LEGAL INFORMATION

COPYRIGHT NOTICE

- Compliance with copyright laws is mandatory. The recording and publication of pre-recorded media like tapes, CDs, or other published or broadcast material may breach copyright laws. The same applies for all software supplied as part of the scope of delivery.
- The designations SD, SDHC, SDXC, microSDHC and their associated logos are registered trademarks of SD-3C, LLC.

DISCLAIMER

"Leica Content Credentials" allow the tracing of image content and changes thereto. Leica Camera AG assumes no liability with regard to tamper safety or misuse, and offers no warranty for the use of the "Leica Content Credentials" for a specific purpose.

LEGAL INFORMATION ABOUT THIS MANUAL

COPYRIGHT

TECHNICAL DATA

Product changes with regards to the products or services may occur after the editorial deadline. The manufacturer reserves the right to effect structural or shape changes, color deviations and changes to the scope of delivery or service, where these changes or deviations are reasonably acceptable for the customer, while taking into consideration the interests of Leica Camera AG. To that extent, Leica Camera AG reserves the right to changes and errors. The images in this manual may depict accessory, special features or other items that are not part of the standard scope of delivery or service. Some pages may contain model types and services, which are not offered in specific countries.

BRANDS AND LOGOS

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

LICENSE RIGHTS

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

REGULATORY INFORMATION

You will find the manufacturing date of your camera on the stickers in the Warranty Card and/or on the packaging.
The date format is year/month/day.

COUNTRY-SPECIFIC LICENSES

Specific regional approvals for this device can be found in the Leica FOTOS app.

LICENSE INFORMATION

Specific license information for this device can be found in the Leica FOTOS app.

CE MARK

English

Declaration of Conformity (DoC)

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

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

www.cert.leica-camera.com

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

Usable frequency band/Usage limitations:
see Technical Data

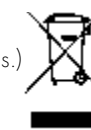
Depending on product (see technical data)

Type	Frequency band (center frequency)	Max. output (E.I.R.P.)
WLAN	2412–2462/5180–5240 MHz/ 5260–5320/5500–5700 MHz 5735–5825 MHz	<20 dBm
Bluetooth® Wireless Technology	2402–2480 MHz	<10 dBm

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

CE

DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT



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

This device contains electrical 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. 80.

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 capturing.
- 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 capturing.
- 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 irreparable 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 intense 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 workshops.

- 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 (optional accessory)

- 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 suffer damage.

FLASH

- The use of incompatible flash units with your Leica M11-D 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

- 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.

RECHARGEABLE BATTERY

- The rechargeable battery must only be charged within a specific temperature range. See chapter "Technical Data" (p. 92) 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 YYYYMMDD.

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. An unformatted memory card that is inserted into the camera for the first time will have to be formatted.
- We recommend backing up your data on a PC, because electromagnetic 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 shots.
- We recommend the use of UHS-II memory cards for best performance.

SENSOR

- Depending on particle size, any dust or dirt particles adhering to the sensor glass may result in noticeable dark spots or blemishes in recordings (in system cameras). Alternatively, send your camera to

the Leica Customer Care department for sensor cleaning (see p. 98). 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 M11-D. As digital cameras have many functions that are controlled electronically, improvements and enhancements to the functions can be installed on the camera at a later date. 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 M11-D. Additionally, you can find information about changes or additions to the manual at: https://club.leica-camera.com

WARRANTY TERMS LEICA CAMERA AG

Dear Leica Customer,
congratulations on the purchase of your new Leica product – you are now the proud owner of a world-class brand product. In addition to your statutory warranty claims against your seller, we, Leica Camera AG ("LEICA"), grant you voluntary warranty services for your Leica product in accordance with the following stipulations ("Leica Warranty"). The Leica warranty therefore does not limit your statutory rights as a consumer under applicable law or your rights as a consumer against the dealer with whom you have concluded the purchase contract.

LEICA WARRANTY

You have purchased a Leica product that has been manufactured according to special quality guidelines and tested by experienced specialists during the various stages of production. We provide the following Leica Warranty, valid as of April 1, 2023, for this Leica product and including the accessory parts in the original packaging. Please note that we do not offer any warranty for commercial use.
We offer an extended warranty for some Leica products, provided you register for a Leica account. Please visit www.leica-camera.com for more details.

LEICA WARRANTY SCOPE

During the warranty period, complaints based on manufacturing and material defects will be remedied free of charge, at LEICA's discretion, by way of repair, replacement of defective parts, or exchange for a similar Leica product in perfect condition. Replaced parts or products become the property of LEICA.
Further claims of any kind and on any legal grounds whatsoever in connection with this Leica Warranty are excluded.

EXCLUDED FROM THE LEICA WARRANTY

Parts subject to wear and tear (e.g. eyecups, leather coverings, carry straps, armoring, batteries), and parts under mechanical stress are excluded from the Leica Warranty, unless the defect was caused by manufacturing or material defects. That also applies to any exterior damage.

VOIDED CLAIMS UNDER LEICA WARRANTY

Claims under the warranty are void if the defect in question is due to improper handling; they may also be void if e.g. third-party accessories have been used, the Leica product has not been opened professionally or has not been repaired professionally. Claims for warranty services shall similarly be void if the serial number is unrecognizable.

CLAIMS UNDER THE LEICA WARRANTY

We require a copy of the proof of purchase of your Leica product from a LEICA-authorized dealer ("Authorized Leica Dealer") before we can accept any claim under the warranty. The purchase receipt must show the date of purchase, the Leica product with its article number and serial number, and details of the Authorized Leica Dealer. We reserve the right to request the original receipt. Alternatively, you may send us a copy of the warranty card; please note that the Warranty Card must be filled out correctly, and the product must have been purchased from an Authorized Leica Dealer.
Please send your Leica product with a copy of your purchase receipt or the Warranty Card alongside a description of the issue.
Leica Camera AG, Customer Care, Am Leitz-Park 5, 35578 Wetzlar, Germany
Email: customer.care@leica-camera.com, phone: +49(0)6441 2080-189
or to an Authorized Leica Dealer.

Leica Product Image	Warranty Term
all products	2 years

TABLE OF CONTENTS

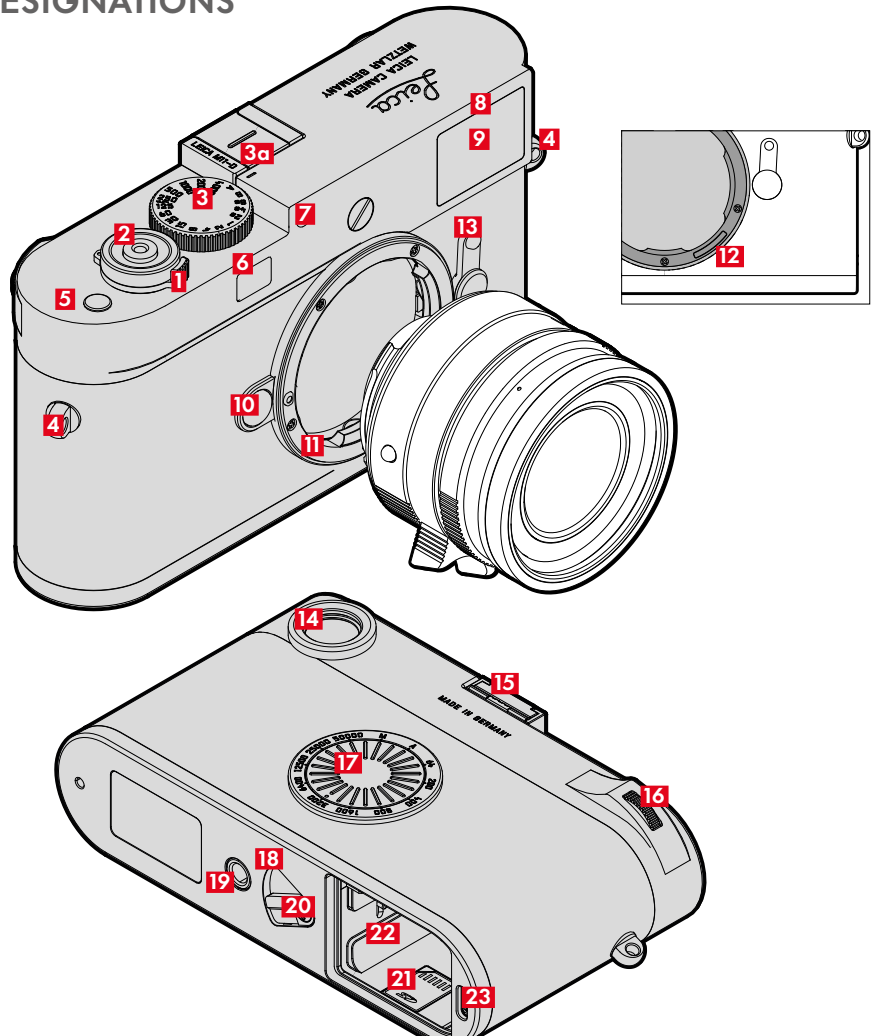
Definition of the various categories of information found in this manual

Note
Additional information

Important
Failure to comply with instructions may result in damage to the camera, the accessories or the data files

Attention
Non-compliance may result in personal injury

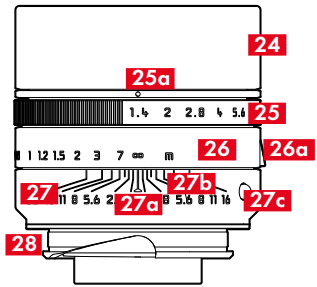
PART DESIGNATIONS



LEICA M11-D

1 Main switch
2 Shutter button
3 Shutter-speed dial with stop positions
a Alignment point for shutter-speed dial
4 Strap lugs
5 Function button
6 Rangefinder window
7 Brightness sensor
8 Self-timer LED
9 Viewfinder window
10 Lens release button
11 Leica M bayonet
12 6-bit encoding
13 Frame selector lever
14 Viewfinder eyepiece
15 Accessory shoe
16 Thumbwheel
17 ISO setting dial
18 Status LED
19 Tripod thread
20 Battery release lever
21 Memory card slot
22 Battery compartment
23 USB-C socket

LENS*



24 Lens hood

25 Aperture ring with scale

- **a** Index for aperture values

26 Focus ring

- **a** Focus tab

27 Fixed ring

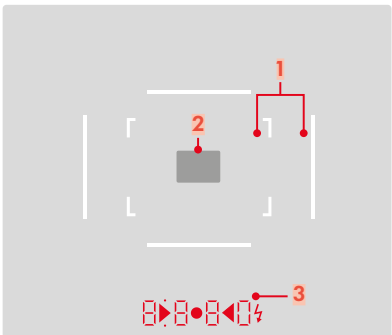
- **a** Alignment point for focusing
- **b** Depth of field scale
- **c** Alignment button for lens replacement

28 6-bit encoding

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

DISPLAYS

VIEWFINDER



1 Bright-line frame (e.g. 50 mm + 75 mm)

2 Focus frame

3	Digital display
8888	– Displays the automatically calculated shutter speed in aperture-priority mode **A** or the countdown of longer shutter speeds in 1 s increments – Warning the outside of measuring or setting range in aperture-priority mode **A** – Exposure compensation value (appears for a short time during setting, and for approx. 0.5 s when activating exposure metering by tapping the shutter button) – Display of the set ISO value
• (top)	Indicates (when lit) that exposure lock is active
• (bottom)	Indicates (flashing) that exposure compensation is in use
▶ ● ◀:	For manual exposure setting: – Concurrently as light balance for exposure compensation – The triangular LEDs indicate the required direction of rotation for the aperture ring and shutter-speed dial – Warning underexposure
ϟ	– Flash ready to use – Details of flash exposure before and after exposure
Con	Connection readiness
Conon	Connectivity Mode is enabled
ConoFF	Connectivity Mode disabled

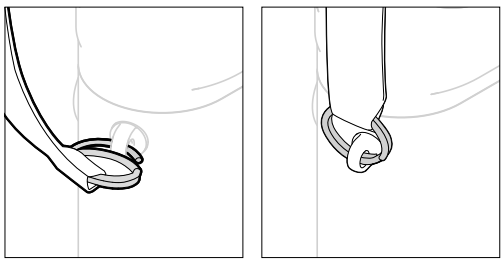
Con 2.4	Wi-Fi 2.4 GHz
Con 5	Wi-Fi 5 GHz
PtP	USB Mode PTP
APP	USB Mode MFi
UP	Firmware update activated
UP Err	An error occurred during the firmware update
Sd Err	An error occurred while accessing the memory card
Sd FULL	Memory card full
Int FULL	Internal memory full
FULL	5 s flashes: Selected storage is full Flashing: Memory card and internal memory are full
Cr on	Leica Content Credentials activated
Cr oFF	Leica Content Credentials deactivated
Sd1	Memory card use preferred (recordings will be written to the memory card until its capacity is reached)
bUP	Backup (one copy each saved to both storage locations)
SP1	Split 1 (DNG to internal memory, JPG to memory card)
SP2	Split 2 (DNG to memory card, JPG to internal memory)
Int1	Internal memory use preferred (recordings will be written to the internal memory until its capacity is reached)
Int oFF	Internal memory deactivated
bc	Continuously lit: Battery capacity below 20% Flashing: Battery capacity below 2%
AutO	Automatic ISO setting.
3200	Example for selected ISO setting
1,2,3,4...	Button push counter display

STATUS LED

The status LED on the underside of the camera offers feedback on camera processes.

Status LED	Meaning
Lights up red	Memory access/Image processing
Flashes red (2 Hz)	Firmware update activated
Flashes blue (2 Hz)	Ready for pairing
Flashes blue (0.25 Hz)	Active WLAN or cable connection (with Leica FOTOS or PC)
Flashes 5x blue + continuously lit 5 s green	Connectivity Mode is enabled
Flashes 5x blue + continuously lit 5 s red	Connectivity Mode is disabled
Flashes green (0.5 Hz)	Active charging process
Flashes green (2 Hz)	Charging fault
Continuously lit 5 s green	Pairing was successful
Lights up green	Battery fully charged

ATTACHING THE CARRY STRAP



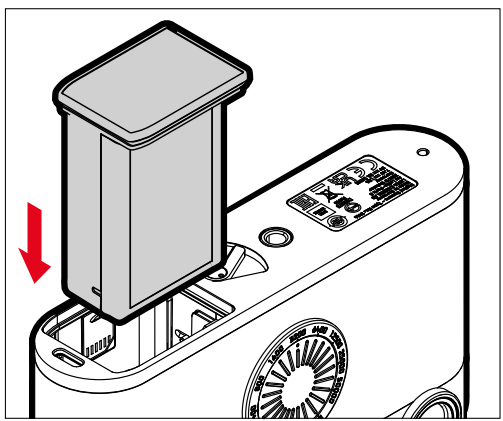
Attention

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

INSERTING/REMOVING THE BATTERY

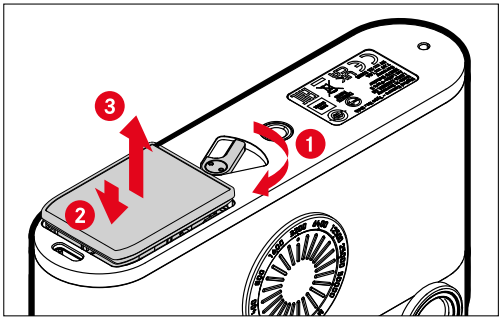
→Ensure that the camera is switched OFF

INSERTION



→Insert the battery with the groove pointing towards the rear 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
- Data continues being written to the memory card as long as the status LED remains lit.
- Removing the battery while the camera is switched on may result in the loss of custom settings, the loss of saved images, or damage to the memory card.

CHARGING THE BATTERY

The camera is powered by a lithium-ion battery.

CHARGING VIA USB

The rechargeable battery in the camera charges automatically while the camera is connected to a computer or another suitable power source via USB cable.

Notes
- Charging will only occur if the camera is in Standby mode or switched off. The charging process will be interrupted as soon as the camera is switched on. The charging will start automatically.
- The camera will not switch to Standby mode when charging via USB.
- The charging process will be interrupted in shooting mode.
- The status LED will flash green during active charging.

CHARGING VIA CHARGER (OPTIONAL)

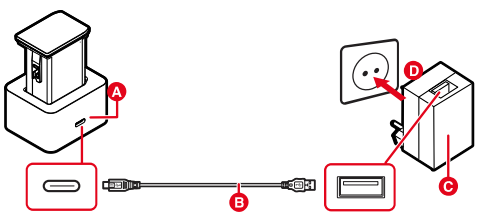
The battery can be charged using the optionally available charging set.

PREPARING THE CHARGER

→ Connect the power adapter (C) to the mains via the plug (D) matching regional standards

→ Connect the power adapter and charger (A) via USB cable (B)

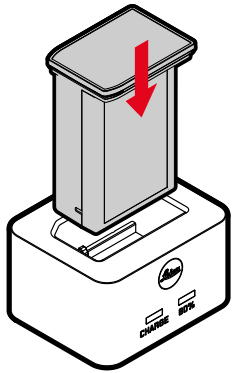
- Only the appropriate cable supplied must be used.



Notes

- The charger will automatically adapt to local mains voltage.
- Ensure to use only power adapters with sufficient output. Otherwise the charging process will not commence.

INSERTING THE BATTERY IN THE CHARGER



→ Slide the battery into the charger with the grooves facing down until the contacts meet

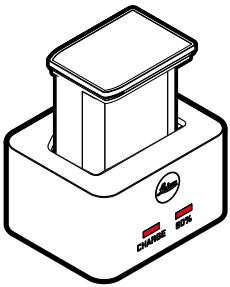
→ Press down on the battery until you can hear and feel it clicking into place

→ Ensure that the battery is fully inserted into the charger

REMOVING THE BATTERY FROM THE CHARGER

→ Pull the rechargeable battery up and out

CHARGE STATUS INDICATORS ON THE CHARGER



The status LED indicates a correct charging process.

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

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

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

- Various manufacturers offer SD/SDHC/SDXC memory cards in a range of sizes and read/write speeds. Memory cards with high storage capacities and high read/write speeds offer quick storage and rendering.
- A memory card may not be supported (depending on its capacity) and may have to be formatted in the camera before initial use. 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 for additional information.
- The message `Sd Err` will be displayed in the viewfinder if memory card access fails. This error may have one of the following causes:
  - No memory card inserted
  - Memory card is defective
  - Memory card is full
  - Memory card is locked

* starting from a discharged state

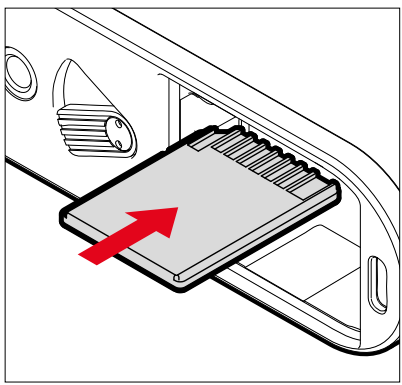
**The use of UHS-II memory cards is recommended.

The memory card slot is located inside the battery compartment and is covered by the battery.

→Ensure that the camera is switched OFF

→Take out and then replace the battery

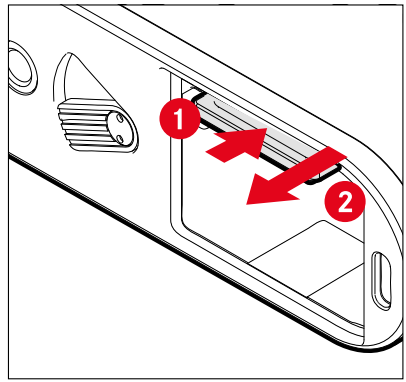
INSERTION



→Push the memory card into the slot until you hear and feel it clicking into place

- The beveled corner of the card must be at the top left.

REMOVAL



→Push down on the card until you hear a click

- The card pushes out slightly.

→Remove the memory card

LENS

COMPATIBLE LENSES

LEICA M LENSES

Most Leica M lenses can be used with any lens equipment (with or without 6-bit encoding in the bayonet). Your camera will also deliver great photographs when using Leica M lenses without encoding. We recommend entering the lens type manually to ensure optimal image quality.

Please read the following sections for details on the very few exceptions and limitations.

Notes

- Our Leica Customer Care department can retrofit many Leica M lenses with 6-bit encoding.
- Leica M lenses come with a control curve that mechanically transfers the set distance to the camera to allow manual focusing via the rangefinder of the Leica M camera. Please note the following when using the rangefinder with wide-aperture lenses (≤1.4):
  - The focusing mechanism of every camera and every lens is adjusted individually at the Leica Camera AG factory in Wetzlar with the greatest possible precision. Extremely narrow tolerances are adhered to in this process, which allow precise focusing of every camera/lens combination in photography.
  - If wide-aperture lenses (≤1.4) are used with an open aperture, the then sometimes resulting very low depth of field, and inaccuracies in focusing with the rangefinder may lead to setting errors resulting from the (added) overall tolerance of the camera and lens. It can therefore not be ruled out that a specific camera/lens combination may result in systematic deviations.
  - We recommend having the lens and camera checked by Leica Customer Care if you notice a general deviation of the focal position in a specific direction over time. Our technicians will ensure that both products are calibrated within the permissible overall tolerance. However, a 100% match of the focal position cannot be achieved for all pairings of cameras and lenses.

LEICA R LENSES (WITH ADAPTER)

The optional accessory Leica R-Adapter M allows the use of Leica R lenses as well as Leica M lenses. Please visit the Leica Camera AG website for more information on this accessory.

LENSES WITH LIMITED COMPATIBILITY

COMPATIBLE, BUT MAY POSE RISK OF DAMAGE TO THE CAMERA AND/OR LENS

– Lenses with retractable tube must only be used with the tube extended, i.e. the tube must not be retracted into the camera. This does not apply for the current Makro-Elmar-M 90 f/4 model, as its tube will not retract into the camera itself and can therefore be used without restriction.
– When using heavy lenses attached to a tripod-mounted camera, e.g. Noctilux 50 f/0.95 or Leica R lenses with an adapter: Make sure that the tilt of the tripod head cannot move inadvertently when the camera is not held. A sudden tilt and impact could result in damage to the lower edge of the camera bayonet. That is why you should always use the tripod mount on relevantly equipped lenses.

COMPATIBLE, BUT EXACT FOCUSING MAY BE LIMITED

Despite the high precision of the rangefinder on the camera, exact focusing with 135 mm lenses with an open aperture cannot be guaranteed due to the very low depth of field. We therefore recommend stopping down by at least 2 steps. Live View mode, on the other hand, plus the various setting aids provided, allow unrestricted use of this lens.

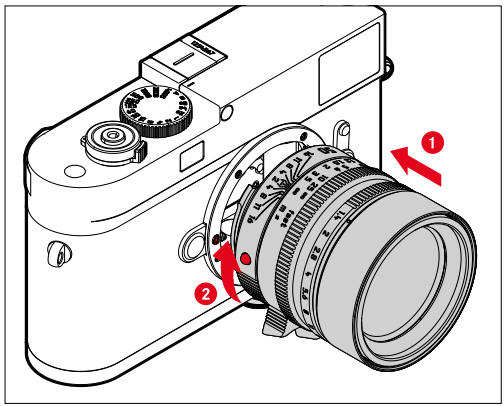
INCOMPATIBLE LENSES

– Hologon 15 f/8
– Summicron 50 f/2 with close-up function
– Elmar 90 f/4 with retractable tube (manufactured 1954–1968)
– Some examples of the Summilux-M 35 f/1.4 (non-aspherical, manufactured 1961–1995, Made in Canada) cannot be attached to the camera or cannot focus to infinity. Leica Customer Care can modify these lenses for use with the camera.

CHANGING THE LENS

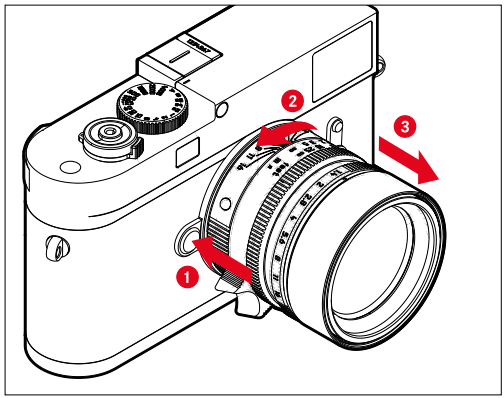
LEICA M LENSES

ATTACHING



→Ensure that the camera is switched OFF
→Hold the lens by the fixed ring
→Position the alignment button on the lens opposite the release button on the camera housing
→Attach the lens in this position
→Turn the lens clockwise until you hear and feel it click into place

DETACHING



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

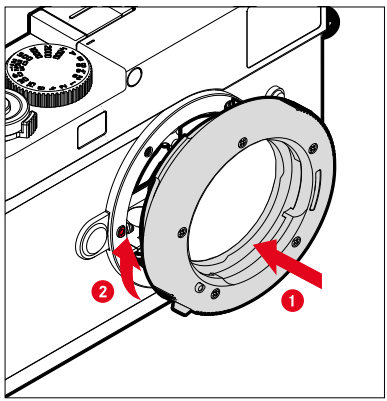
Important

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

OTHER LENSES (e.g. Leica R lenses)

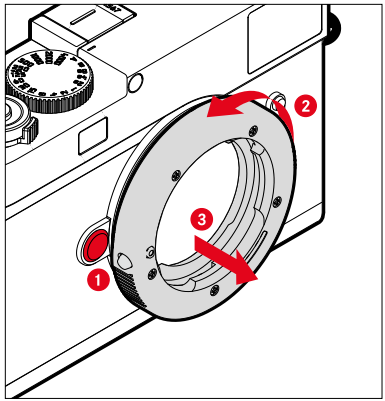
Other lenses can be attached via an adapter for M bayonets (e.g. Leica R-Adapter M).

ATTACHING THE ADAPTER



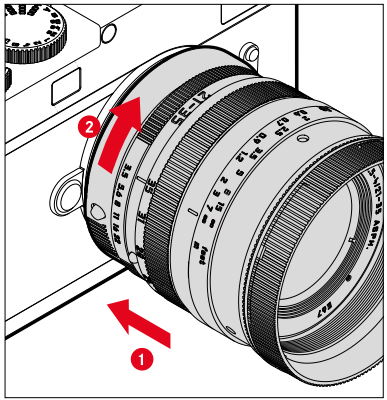
→ Ensure that the camera is switched OFF
→ Position the alignment point on the adapter opposite the alignment point on the camera housing
→ Attach the lens in this position
→ Turn the adapter clockwise until you hear and feel it click into place
→ Attach the lens immediately

DETACHING THE ADAPTER



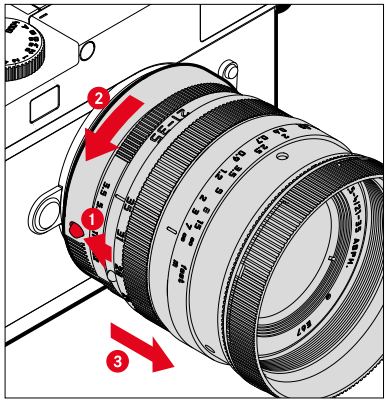
→ Ensure that the camera is switched OFF
→ Detach the lens
→ Press and hold the release button on the camera housing
→ Turn the adapter counter-clockwise until the alignment point is opposite the release button
→ Detach the adapter

ATTACHING THE LENS TO THE ADAPTER



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

DETACHING THE LENS FROM THE ADAPTER

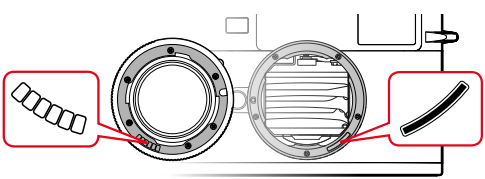


- Ensure that the camera is switched OFF
- Hold the lens by the fixed ring
- Press and hold the release button on the adapter
- Turn the lens counter-clockwise until its alignment point is opposite the release button
- Detach the lens

LENS DETECTION

The 6-bit encoding in the bayonet of current model Leica M lenses allows the camera to detect the lens type.

– This information is used for e.g. image data optimization. Edge darkening, for example, which can become noticeable when wide-angle lenses and large apertures are used, is compensated in the relevant image data.
– The information provided by the 6-bit encoding is also written to the Exif data. The focal length of the lens is additionally displayed when rendering the extended image data.
– The camera will write an approximate aperture value to the Exif image data, which is calculated individually using the exposure metering system. This is done whether or not an encoded or unencoded lens or a non-M lens is attached via adapter, and regardless of whether the lens type was entered in the menu.



USING A LEICA M LENS WITH 6-BIT ENCODING

The camera will automatically set the correct lens type when a Leica M lens with 6-bit encoding is used. No manual setting will be required. The camera will switch to Auto automatically when an encoded Leica M lens is attached, regardless of the original lens setting.

USING A LEICA M LENS WITHOUT 6-BIT ENCODING

The lens type must be entered manually when using a Leica M lens without 6-bit encoding.

→Select the attached lens from the list in the Leica FOTOS app

Notes

- Many lenses have their item number engraved on the opposite side of the depth of field scale.
- The list also includes lenses that were available without encoding in the past (pre-June 2006). Newer lenses are all provided with encoding and can therefore be automatically detected.
- When using the Leica Tri-Elmar-M 16-18-21 f/4 ASPH., the set focal length is not transferred to the camera housing will therefore also not be included in the Exif image dataset.
- Tri-Elmar-M 28-35-50 f/4 ASPH., on the other hand, comes equipped with a means for mechanical transmission of the set focal length to the camera for mirroring the correct bright-line frame in the viewfinder. The focal length is scanned by the camera electronics and the information is used for focal length-specific corrections. The two other variants – 11 890 and 11 894 – can be used as well.

USING A LEICA R LENS

The lens type must also be entered manually when attaching a Leica R lens via the Leica R-Adapter M. The camera will automatically switch to Manual R when a Leica R lens is attached, no matter what setting existed originally. You will have to select the lens type from the list.

→ Select the attached lens from the list in the Leica FOTOS app

DISABLING LENS DETECTION

Lens detection can optionally be disabled completely. That makes sense if the shot will not be automatically corrected (DNG and JPG) to e.g. maintain the characteristic shooting features of a lens.

→ Select the desired setting in the Leica FOTOS app

Note

- No lens information will be written to the Exif (Exchangeable Image File Format) data of the image when lens detection is disabled.

DIOPTER COMPENSATION

DIOPTER COMPENSATION ON THE RANGEFINDER

A diopter compensation function for up to ±3 diopter is available for users of eye glasses.

The rangefinder can be fitted with an optional Leica correction lens for that purpose.

https://store.leica-camera.com

→Attach the correction lens flat against the viewfinder eyepiece

→Tighten in clockwise direction

Notes

- Please note the information provided on the Leica homepage for the selection on an appropriate correction lens.
- Please note that the default viewfinder setting of the Leica M11-D is -0.5 diopter. If you wear eye glasses with 1 diopter, you will need a correction lens with +1.5 diopter.

DIOPTER COMPENSATION WITH VISOFLEX 2

Visoflex 2 (optional accessory) comes with an adjustable diopter compensation function in the range of –3 to +4 diopters. Settings are selected via the lateral diopter setting wheel.

→Turn the wheel in direction of the lens

- The diopter setting is corrected towards plus (+).

or

→Turn the wheel in direction of the viewfinder

- The diopter setting is corrected towards minus (-).

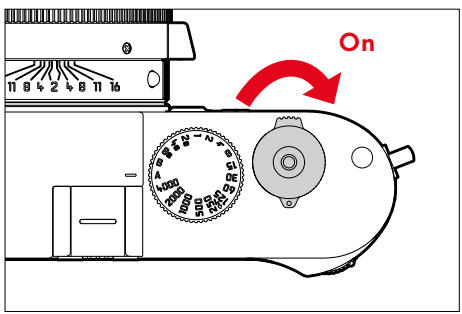
CAMERA OPERATION

CONTROL ELEMENTS

MAIN SWITCH

The main switch switches the camera on and off.

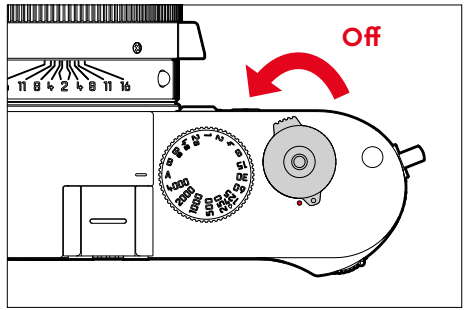
SWITCHING THE CAMERA ON



Notes

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

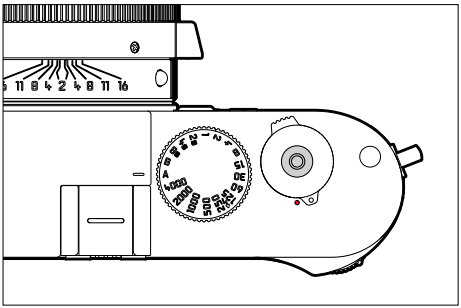
SWITCHING THE CAMERA OFF



Note

- The function Camera Standby (see p. 46) deactivates the camera automatically if no operation occurs within a preset time. Press the main switch to switch off the camera if this function is Off to prevent inadvertent exposures and battery discharge while the camera is not in use.

SHUTTER BUTTON



The shutter button works in two stages.

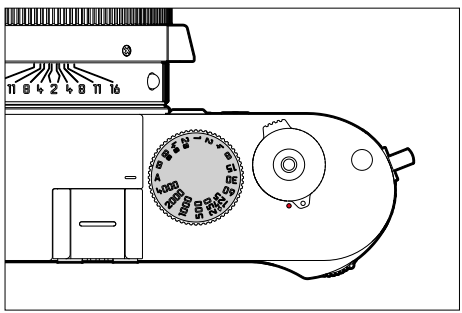
1. **Tapping** (= Pressing the shutter button to the 1st pressure point)
   - Activating the camera electronics and displays
   - Exposure lock (metering & saving):
     - saves the metered exposure value in aperture-priority mode, i.e. the shutter speed determined by the camera
   - Restarting a running self-timer delay time
   - Return to shooting mode
     - from standby mode
2. **Press down fully**
   - Shutter release
   - Initiating a preset self-timer delay time
   - Initiating continuous 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

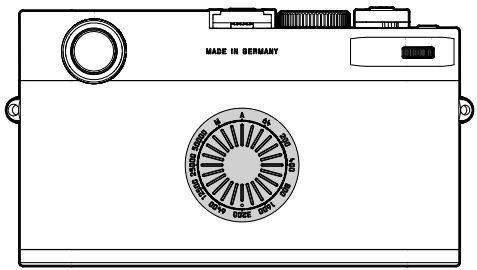
The shutter-speed dial has no stop, which means it can be turned in either direction from any position. It will click at each engraved position and for intermediate values. Intermediate positions outside the click positions must not be used. Please read the section "Exposure" (see p. 63) for details about exposure settings.



- **A**: aperture-priority mode (automatic shutter speed control)
- **4000** – **8s**: Fixed shutter speeds of 1/4000 s to 8 s (with intermediate values, clicking in 1/2 increments)
- **B**: Long-term exposure (bulb)
- ϟ: The highest available sync speed (1/180 s) for flash mode

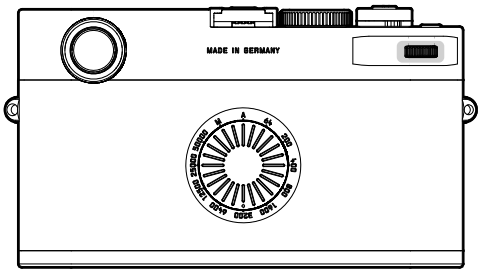
ISO SETTING DIAL

The ISO setting dial dial has no stop, which means it can be turned in either direction from any position. It will click at each engraved position. Intermediate positions outside the click positions must not be used.



- **A**: Automatic ISO sensitivity control
- **64** – **50000**: Fixed ISO values
- **M**: Manual ISO sensitivity control We recommend a relevant thumbwheel assignment (as 1st or 2nd function) for this setting.

THUMBWHEEL



TURNING

Turning the thumbwheel right or left will make the following values accessible:

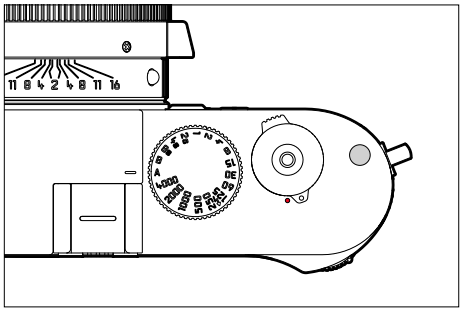
- Exposure compensation values
- ISO values (with the ISO setting dial set to **M**)
- Exposure time (with the shutter-speed dial set to to **B**)

PRESSING

Pressing the thumbwheel will switch the viewfinder display to the following information:

- Exposure time
- Exposure compensation value
- ISO value

FUNCTION BUTTON



Pressing the function button will switch the viewfinder display to the following information:

- Remaining number of shots
- Remaining battery charge in %
- USB mode
- Storage Mode
- Connectivity Mode
- Leica Content Credentials (Cr)
- "Wi-Fi" Mode (5 GHz/2.4 GHz)
- Exposure time

CAMERA BASIC SETTINGS

DATE/TIME

RECEIVING THE SETTINGS FROM A MOBILE DEVICE

Date and time settings can be automatically sourced from the paired mobile device. During initial pairing with the Leica FOTOS app, a prompt for applying the date and time settings of the paired mobile device will appear. The settings will then synched each time at each subsequent pairing. The pairing process is described in the chapter "Leica FOTOS" (see p. 80).

MANUAL SETTINGS

→Press and hold the function button for 12 s
- A button-press counter is displayed in the viewfinder.

→Turn the thumbwheel to set the date and time
- The next available setting value will appear in the viewfinder when the function button is pressed.
- The following values can be set:

Year	
Month	
Day	
Hour	
Minute	

→Press and hold the function button for 12 s
- The set values will be saved.

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.

→ Select the desired setting in the Leica FOTOS app

Notes

- 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.
- This setting will also affect the EVF of an attached Leica Visoflex 2 (see p. 79) accessory.

BRIGHTNESS

RANGEFINDER

The brightness sensor automatically adjusts rangefinder brightness.

Note

- This automatic control is not available for Leica M lenses with viewfinder attachments, as they cover the brightness sensor that supplies the required information. The frames and displays will therefore be displayed at a constant brightness when Leica M lenses are used.

FILE FORMAT

Choose the 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 photo 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

→ Select the desired format in the Leica FOTOS app

Notes

- The standardized DNG format is used for the storage of raw image data.
- When saving the image data as DNG and JPG at the same time, the resolution used for the JPG file may depend on the DNG resolution setting.
- The DNG format will always work with the selected DNG resolution, regardless of the JPG resolution.
- The remaining number of shots shown in the viewfinder will not necessarily change after every recording. That very much depends on the object; very fine image structures result in higher data quantities, while homogeneous surfaces mean less data.

RESOLUTION

DNG RESOLUTION

Three different resolutions (number of pixels) are available for shooting in raw data format (DNG). All the benefits of DNG capture (like extensive color depth and high dynamic range) can therefore be used even if the image size is reduced.

→ Choose the desired resolution in the Leica FOTOS app

JPG RESOLUTION

There is a choice of three resolutions (number of pixels) available for shooting in JPG format. This choice allows an alignment with the intended use and available memory card capacity.

→ Choose the desired resolution in the Leica FOTOS app

EFFECT OF OTHER SETTINGS ON THE JPG RESOLUTION

DNG RESOLUTION

If shooting in DNG format or in JPG format only, the relevantly selected resolution applies. Where the file format is set to DNG + JPG, the resolution used for JPG shots will depend on the resolution set for DNG shots. The resolution selected for JPG files can be less than the one used for DNG files, but it cannot be higher.

DNG Resolution	Max. JPG Resolution		
	L-JPG	M-JPG	S-JPG
L-DNG	60 MP	36 MP	18 MP
M-DNG	36 MP	36 MP	18 MP
S-DNG	18 MP	18 MP	18 MP

FILM STYLE

EXTENDED DYNAMIC RANGE

This function corrects light and shadow locally to improve the overall image contrast and maintain detail in the relevant gradation value ranges. This facilitates the display of image content with a very high dynamic range on standard output devices, and more closely resembles the perception of the human eye. This function is applicable only for JPG format.

Factory setting: Off

→Select the desired setting in the Leica FOTOS app

AUTOMATIC OPTIMIZATION

NOISE REDUCTION

NOISE REDUCTION FUNCTION FOR LONG-TERM EXPOSURE

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

Factory setting: On

→Select the desired setting in the Leica FOTOS app

Noise Reduction is used if the following conditions apply:

ISO range	Shutter speed longer than
ISO 64 – ISO 125	160 s
ISO 160 – ISO 250	80 s
ISO 320 – ISO 500	40 s
ISO 640 – ISO 1000	20 s
ISO 1250 – ISO 2000	10 s
ISO 2500 – ISO 4000	6 s
ISO 5000 – ISO 8000	3 s
ISO 10000 – ISO 16000	1.5 s
ISO 20000 – ISO 32000	0.8 s

NOISE REDUCTION IN JPG IMAGES

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

Factory setting: 0

→ Select the desired setting in the Leica FOTOS app

Note

- This setting will only affect images in JPG format.

DATA MANAGEMENT

STORAGE OPTIONS

Leica M11-D comes with a 256 GB internal memory. In combination with an inserted memory card, there will be various options for storing data.

Factory setting: DNG+JPG first on SD

→ Select the desired setting in the Leica FOTOS app

Option	Description
DNG+JPG first on SD	Files will initially be saved to the inserted memory card until it runs out of space. After that, files will be saved to the internal memory.
DNG+JPG first on IN	Files will initially be saved to the internal memory until it runs out of space. Inserted After that, files will be saved to the memory card.
DNG on SD / JPG on IN	The files are stored by format. JPG files are stored in the internal memory, and DNG files on the memory card.
DNG on IN / JPG on SD	The files are stored by format. DNG files are stored in the internal memory, and JPG files on the memory card.
DNG+JPG on IN=SD	All files are saved to both storage locations. That will ensure that there will always be a complete backup of all files.
DNG+JPG only on SD	All files are saved to the inserted memory card. The internal memory remains unused.

FORMATTING STORAGE LOCATIONS

It is recommended to format storage locations from time to time, as some residual data (data accompanying shootings) may use up storage capacity. An inserted memory card and the internal memory can be formatted independently. Formatting requires a PC connection. Please note the following:

– Never switch off the camera while the internal memory is being formatted.
– When formatting a storage location, all date in that storage location will be irretrievably lost. Formatting will not be prevented by a 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.

Notes

- The simple formatting process will initially not irretrievably destroy existing data. 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.
- Contact your retailer or Leica Customer Care for assistance if you encounter problems when formatting/overwriting your storage locations (see p. 98).

DATA STRUCTURE

FOLDER STRUCTURE

The files (= photos) 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 initial "L" in 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.
- The camera will have to be reset to factory settings when the folder number 999 and file number 9999 are reached.
- Format the memory card and restore the factory settings of the camera directly after if you wish to reset the folder number to 100.

LEICA CONTENT CRENDENTIALS

Signing the images with this function allows you to add allocation details to each frame.

They contain information about the identity of the creator, as well as data in compliance with the C2PA standard regarding the specific camera used for taking the images. These may offer useful allocation information for target groups, once the image is shared or published. Relevant images are marked with an icon.

→Select the desired setting in the Leica FOTOS app

Disclaimer

"Leica Content Credentials" allow the tracing of image content and changes thereto. Leica Camera AG assumes no liability with regard to tamper safety or misuse, and offers no warranty for the use of the "Leica Content Credentials" for a specific purpose.

RECORDING THE SHOOTING LOCATION WITH GPS (only in connection with the Leica FOTOS app)

The GPS (global positioning system) allows the pinpointing of a receiver anywhere in the world. The GPS function is activated automatically, provided there is an active connection to the Leica FOTOS app, and the GPS function is activated on the paired mobile device. The camera will then continuously receive the current GPS data (latitude and longitude, elevation above sea level) and writes this information into the Exif data of the images.

→Activate the GPS function on the mobile device

→Open the Leica FOTOS app and pair the camera

Notes

- This function is available only as long as the camera has an active connection with the Leica FOTOS app.
- 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.

DATA TRANSFER

Leica FOTOS allows an easy data transfer to mobile devices. Alternatively, the transfer can be done via a card reader or a cable connection.

ABOUT LEICA FOTOS

→See chapter "Leica FOTOS" (p. 80)

VIA USB CABLE OR "LEICA FOTOS CABLE*"

The camera supports PTP or Apple MFi data transfer. These options require appropriate camera settings for USB mode.

Factory setting: PTP

→Select the desired setting in the Leica FOTOS app

or

→Press and hold the thumbwheel

→Switch off the camera

- The USB mode toggles.

– "Apple MFi" is used for the communication with iOS devices (iPhone and iPad).
– "PTP" permits data transfers to computers using MacOS or Windows with PTP-capable software.

Notes

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

* Optional accessory

DRIVE MODE

The functions and settings described in the following generally refer to the exposure of individual shots. In addition to single frame shooting, the Leica M11-D offers a number of other exposure modes. Please read the relevant sections for information about functionalities and setting options.

- Single frame shooting
- Continuous Shooting (see p. 72)
- Self-timer (see p. 73)

Factory setting: Single

→ Select the desired setting in the Leica FOTOS app

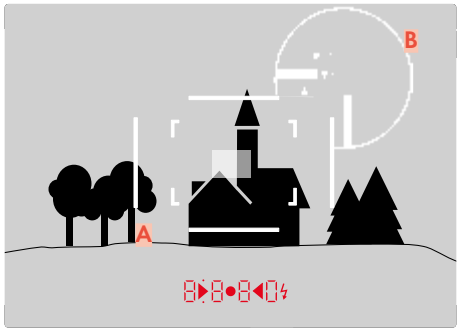
SHOOTING TYPES

USING THE RANGEFINDER

IMAGE FIELD (BRIGHT-LINE FRAME)

The bright-line rangefinder of this camera is not just a very high-quality, large, brilliant and bright viewfinder – it also doubles as a highly precise, lens-coupled metering device. All Leica M lenses with focal lengths between 16 and 135 mm are coupled automatically when they are attached to a camera. The viewfinder has a magnification factor of 0.73x.

The bright-line frame is coupled with the focusing function in such a way that the parallax – the offset between the lens axis and the viewfinder axis – is compensated automatically. At ranges under 2 m, the sensor captures slightly less than indicated by the inner edges of the bright-line frame, and slightly more at longer ranges (see diagram). These slight – in practical terms never important – deviations are unavoidable. The bright-line frames of a camera with viewfinder must be adjusted to the view angle of the focal length of the lens. The nominal view angle changes slightly when focusing due to the changing draw-out, i.e. the distance of the lens system to the sensor level. When the set distance is below infinity (and the draw-out accordingly greater), the actual view angle also decreases – the lens captures less of the image object. The view angle differences at greater focal lengths tend to be larger due to the greater draw-out.



All shots and bright-line frame positions at 50 mm focal length

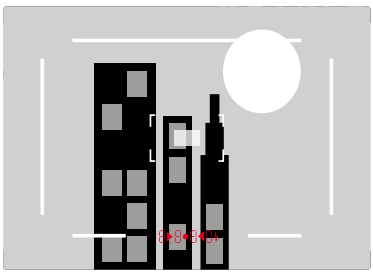
A	Bright-line frame
B	Actual image field
Set to 0.7 m	The sensor captures approximately one frame width less.
Set to 2 m	The sensor captures the exact image field shown within the inner edges of the bright-line frame.
Set to infinity	The sensor captures around 1 or 4 more (vertical or horizontal) frame width(s).

Notes

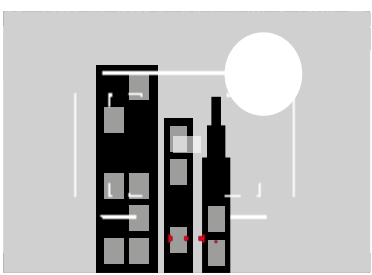
- The bright-light frames illuminated by white light LEDs appear alongside the exposure meter LEDs at the lower edge of the viewfinder image, once the camera electronics are activated.
- The rectangular focus frame, which is brighter than the surrounding image field, is in the center of the viewfinder frame. Please read the relevant sections for more information about focusing and exposure metering.

The relevant bright-line frame will light up in the combinations 35 mm + 135 mm, 50 mm + 75 mm or 28 mm + 90 mm when lenses with a focal length of 28 (Elmarit as of serial number 2 411 001), 35, 50, 75, 90 and 135 mm are used.

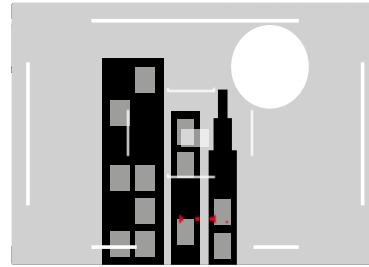
35 mm + 135 mm



50 mm + 75 mm



28 mm + 90 mm



SHOW ALTERNATIVE IMAGE RANGES/FOCAL LENGTHS

Additional bright-line frames may be displayed depending on the attached lens. These allow a simulation of the relevant focal lengths. This process helps in the selection of the right lens for the desired image range.

→ Push the frame selector lever towards the lens

- The frame selector lever will snap back automatically when released.

FOCUSING

Use the rangefinder for focusing.

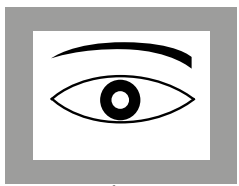
RANGEFINDER

The rangefinder of this camera is very precise due to its wide and effective measurement base. Image sharpness can be set via the double-image or the split-image method.

DOUBLE-IMAGE METHOD

For a portrait, you might focus on the eyes using the focus frame of the rangefinder, turning the focus ring on the lens until the contours are aligned exactly inside the focus frame.

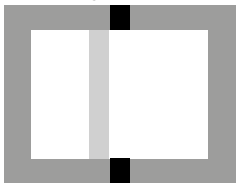
out of focus



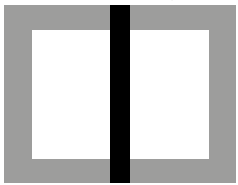
in focus

SPLIT-IMAGE METHOD

For an architectural photograph, you might aim the focus frame of the rangefinder at e.g. the vertical edge or any other clearly defined vertical line and keep turning the focus ring on the lens until the edge contour or the line is visible at the outer edges of the focus frame without any offset.



out of focus



in focus

Notes

- Very precise focusing are particularly beneficial when using wide-angle lenses with a relatively large depth of field.
- The focus frame of the rangefinder is displayed as a bright, sharp-edged rectangle in both methods. The position of the focus frame cannot be changed. It will always be at the center of the viewfinder.

FOCUS ASSIST (OPTIONAL)

Focus Assist is available only with the optional accessory Leica Visoflex 2 in conjunctions with the Leica FOTOS app.

The camera detects the movement of the focus ring on the lens. The image in the viewfinder or in the Leica FOTOS app automatically switches to the magnifying glass function. The image zooms in or out when the thumbwheel is turned.

ISO SENSITIVITY

The ISO setting covers a range between ISO 64 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 pictorial composition.

Select a click value engraved on the ISO setting dial and a position:

- **M**: Intermediate values between ISO 64 and 50,000
- **A**: for automatic setting; values between ISO 64 and 50000 will be used

FIXED ISO VALUES

ENGRAVED CLICK VALUEs ON THE ISO SETTING DIAL

→Set the ISO dial to the desired value (**64**, **200**, **400**, **800**, **1600**, **3200**, **6400**, **12500**, **25000**, **50000**)

ALL AVAILABLE SETTINGS

Values between ISO 64 and ISO 50000 can be selected in 30 increments.

→Turn the ISO setting dial to **M**

→Press and hold the thumbwheel until the ISO value appears in the viewfinder

→Turn the thumbwheel to set the desired ISO 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.

→Set the ISO setting dial to **A**

LIMITING SETTING RANGES

Users can set max. ISO value to limit the automatic settings range. A max. exposure time can also optionally be configured. A choice of focal length-related settings (1/f s, 1/(2f) s, 1/(4f) s)*, as well as fixed max. shutter speeds between 1/2 s and 1/2000 s is available.

The camera will only switch to a higher sensitivity in the focal length-specific settings, when the shutter speed falls below the set threshold due to low light. Example: Speeds below 1/60 s at 1/f s, 1/125 s at 1/(2f) s, or 1/250 s at 1/(4f) s in conjunction with a 50 mm lens.

LIMITING ISO VALUES

All values from ISO 64 are available.

Factory setting: 3200

→Select the desired value in the Leica FOTOS app

LIMITING SHUTTER SPEED RANGES

Factory setting: 1/(4f) s

→Select the desired value in the Leica FOTOS app

* This function requires the use of encoded lenses or a manual setting of the lens type used in the menu.

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'.

Two options are available:

– automatic control
– fixed presets

Factory setting: Auto

AUTOMATIC CONTROL/FIXED SETTINGS

→ Select the desired setting in the Leica FOTOS app

Option	Description
Auto	For automatic control, which delivers neutral results in most conditions
Daylight	For outdoor shootings in sunlight
Cloudy	For outdoor shootings in cloudy conditions
Shadow	For outdoor shootings with the main subject in shadow
Tungsten	For indoor shootings with (predominantly) incandescent lamp light
HMI	For indoor shootings with (predominantly) light from metal halide lamps
Fluorescent (warm)	For indoor shootings with (prevailing) light from fluorescent tubes with warm light color
Fluorescent (cool)	For indoor shootings with (prevailing) light from fluorescent tubes with cool light color
Flash	For flash photography

EXPOSURE

The readiness of the exposure meter is signaled by continuously lit displays in the viewfinder:

– in Aperture-priority Mode: display of the exposure time
– in Manual Mode: in the viewfinder, with one of the two rectangular LEDs lit, or in conjunction with the lit circular LED in the middle

The exposure meter is disabled when the shutter-speed dial is set to **B**.

SHUTTER TYPE

The Leica M11-D comes equipped with a mechanical shutter and a purely electronic shutter function. The electronic shutter expands the available shutter area and functions completely noiseless, which may be important in some work environments.

Factory setting: Hybrid

→ Select the desired setting in the Leica FOTOS app

Option	Description
Mechanical	Only the mechanical shutter is used. Working range: 60 min – 1/4000 s.
Electronic	Only the electronic shutter function is used. Working range: 60 s to 1/16000 s.
Hybrid	You can add the electronic shutter function if you need faster shutter speeds than can be achieved with the mechanical shutter. Working range: 60 min – 1/4000 s + 1/4000 s – 1/16000 s.

USE

The classic shutter sound of the mechanical shutter conveys an auditive 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

Exposure metering occurs via the recording sensor

Factory setting: Multi-Field

→ Select the desired setting in the Leica FOTOS app

SPOT

Only a small section in the center of the image field is captured and analyzed.

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 image (e.g. people in a spotlight), or that reflect the light significantly (e.g. white clothing).

Multi-field	Highlight-weighted
	
	
	

EXPOSURE MODES

The camera offers two exposure modes: Aperture-priority Mode or Manual settings. Choose one of the two options depending on image object, situation or individual preference.

SELECTING A MODE

→ Set the shutter-speed dial **A** (Aperture-priority) or select the desired shutter speed (Manual setting = **M**)

APERTURE-PRIORITY MODE- A

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

A correspondingly small aperture value will allow you to shrink the depth of field range. This can be helpful when e.g. offsetting the highly focused face in a portrait against an unimportant or distracting background. 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.

→ Set the shutter-speed dial to **A**

→ Set the desired aperture value

- The automatically selected shutter speed is displayed in the viewfinder.

→ Shutter release

Notes

- The resulting shutter speed is displayed in half increments for more transparency.
- The remaining exposure time after shutter release is counted down in seconds in the viewfinder for shutter speeds greater than 2 s. The actual calculated and steplessly controlled exposure time may vary from the exposure time displayed in half step increments: if e.g. the display shows 16 (the closest value) before shutter release, but the calculated exposure time is longer, then the countdown after shutter release can start from 19.
- Under extreme lighting conditions and based on all the parameters, the exposure metering may generate a shutter speed that is outside the working range, i.e. brightness values that would require exposures shorter than 1/4000 s or longer than 4 min. The camera will use the stated min. or max. shutter speeds and these values will flash as a warning in the viewfinder if that is the case.

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

→ Set the desired shutter speed and aperture value

- The shutter-speed dial must be clicked to one of the engraved exposure shutter speeds or to one of the intermediate values, or must be set in **B** to a user-defined time.

→ Shutter release

AUXILIARY EXPOSURE DISPLAYS

When the measuring range of the exposure meter is undercut in a manual setting and very low light density, then the triangular LED ▶ in the viewfinder on the left will flash as a warning; the indicator on the right (◀) will flash when the measuring range of the exposure meter is surpassed. The shutter-speed icon will flash as a warning if a correct exposure cannot be achievable using the available shutter speeds in aperture-priority mode. The relevant icon will flash if the required shutter speed would undercut the fastest possible shutter speed or overshoot the longest possible shutter speed. As exposure metering is done with the working aperture, the same can be achieved by stopping down the lens.

▶	Underexposure by at least one aperture stop
▶●	Underexposure by a 1/2 aperture stop
●	Correct exposure
●◀	Overexposure by 1/2 aperture stop
◀	Overexposure by at least one aperture stop

LONG-TERM EXPOSURE (B)

Leica M11-D offers shutter speeds up to 60 min. These can be used in several variations.

FIXED SHUTTER SPEEDS

This function can also be used to permanently set shutter speeds longer than 8 s.

→ Set the shutter-speed dial to **B**

→ Use the thumbwheel to select the desired shutter speed

- The exposure time is displayed in the viewfinder.

→ Shutter release

B FUNCTION

The B function holds the shutter open as long as the shutter button is pressed and held (max. 60 min depending on ISO setting).

→ Set the shutter-speed dial to **B**

→ Turn the thumbwheel and set the exposure time to b

- The exposure time is displayed in the viewfinder.
- Turn the thumbwheel to the right when numbers are displayed in the viewfinder

→ Shutter release

T FUNCTION

In this setting, the shutter remains open after shutter release until the shutter button is pressed again (max. 60 min depending on ISO setting). This function can also be used in conjunction with the self-timer (see p. 73). The shutter remains open until the shutter button is tapped again. This prevents blurring in long-term exposures when the shutter button is pressed.

→Set the shutter-speed dial to **B**

→Turn the thumbwheel and set the exposure time to **t**

- The exposure time is displayed in the viewfinder.
- Turn the thumbwheel to the right when numbers are displayed in the viewfinder

Taking a photo

→Shutter release

- The shutter opens.

→Press the shutter button down fully

- The shutter closes.

or

→Setting the self-timer in the Leica FOTOS app

→Shutter release

- The shutter opens once the selected delay time has elapsed.

→Tap the shutter button

- The shutter closes.

AVAILABLE SHUTTER SPEEDS

The max. number of available shutter speeds depend on the current ISO setting.

ISO range	Max. Shutter Speed
ISO 64 – ISO 125	60 min
ISO 160 – ISO 250	30 min
ISO 320 – ISO 500	15 min
ISO 640 – ISO 100	8 min
ISO 1250 – ISO 2000	4 min
ISO 2500 – ISO 4000	2 min
ISO 5000 – ISO 8000	60 s
ISO 10000 – ISO 16000	15 s
ISO 20000 – ISO 32000	8 s
ISO 40000 – ISO 50000	4 s

NOISE REDUCTION

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 "dark frame" (taken with the shutter closed) automatically after a shooting with slow shutter speed and high ISO value. The noise metered in this parallel shot will then be "subtracted" digitally from the data for the actual shot. This "exposure time" doubling must be taken into account in long-term exposures. The camera must not be switched off during that time. The status LED will light up red continuously for the exposure duration.

Noise Reduction is used if the following conditions apply:

ISO range	Shutter speed longer than
ISO 64 – ISO 125	160 s
ISO 160 – ISO 250	80 s
ISO 320 – ISO 500	40 s
ISO 640 – ISO 100	20 s
ISO 1250 – ISO 2000	10 s
ISO 2500 – ISO 4000	6 s
ISO 5000 – ISO 8000	3 s
ISO 10000 – ISO 16000	1.5 s
ISO 20000 – ISO 32000	0.8 s

Noise Reduction can be optionally deactivated (see p. 50).

Notes

- In each of these cases, the exposure meter remains deactivated; after shutter release, however, the digital number display in the viewfinder counts the elapsed exposure time in seconds.
- Leica M cameras are very compact cameras that combine optical and electronic functions in a tiny installation space. It is therefore impossible to shield the sensor 100% against extraneous light. In dark environments, this will not have any negative effect – not even on long-term exposures of several minutes. Should, however, the camera be exposed to additional direct light during a long-term exposure, then light incidence may result in light spots on the sensor that will distort the image. This will occur typically in long-term exposures in daylight via an ND filter. In such cases we recommend protecting the camera from extraneous light. Ideally, that would be done with a dark cloth covering the entire camera and the lens mount.

EXPOSURE CONTROL

EXPOSURE LOCK

We often want to arrange important subject elements outside the center of the image for reasons of pictorial 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.

→ Aim at the key subject element (using spot metering) or alternatively at another detail with average brightness.

→ Tap the shutter button

- The measurement is taken and saved.
- As long as the shutter button is held at the first pressure point, a small red dot will appear in the viewfinder at the top in the number line for confirmation, and the exposure time won't change, even if lighting conditions change.

→ Pan the camera to capture the final image section while keeping the shutter button pressed

→ Shutter release

Notes

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

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

→Press and hold the thumbwheel until the exposure compensation value value appears in the viewfinder

→Turn the thumbwheel to set the desired exposure compensation value

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.
- Tapping the shutter button will display the compensation value in the viewfinder, for example 1.0 – (temporary display instead of the shutter speed). The value will then be displayed as changed exposure times and a flashing dot at the bottom.

EXPOSURE PREVIEW (OPTIONAL)

Exposure preview is available only in conjunction with the optional accessory Leica Visoflex 2.

You can now assess the effect of the relevant exposure setting on the image before taking the photo. This will apply as long as the subject brightness and the set exposure don't result in excessively low or high brightness values.

There are two assessment methods available.

– Shutter button pressed and held at first pressure point

  The viewfinder brightness mirrors the effects of the selected exposure settings when pressing and holding the shutter button at the first pressure point. At all other times, the EVF display corresponds to an optimal exposure setting.

– Permanent

  EVF brightness will always reflect the effects of the currently selected exposure settings.

Factory setting: Permanent

Note

- Regardless of the settings described above, EVF brightness may differ from that of the actual shots depending on ambient lighting conditions.

SHOOTING MODES

CONTINUOUS SHOOTING

This function allows the creation of series of shots to e.g. capture motion sequences at various stages.

Factory setting: Single

→ Select the desired setting in the Leica FOTOS app

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

- The shot frequency stated in the technical documentation is based on a default setting (ISO 200, JPG format L-JPG). Other settings, e.g. depending on image composition, White Balance settings, the memory card used, etc., can affect the shot frequency.
- High Speed continuous shoots are are taken at a frequency of max. 4.5 fps, provided shutter speeds of 1/180 s or faster are used.
- Continuous shooting is not possible if a flash is used. Only a single shot 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.

SELF-TIMER

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

→Setting the self-timer in the Leica FOTOS app

→Shutter release

- 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.
- A running self-timer delay time can be restarted at any time by tapping the shutter button.

Notes

- In self-timer mode, the exposure value is set just before shoot.
- The self-timer function is only available for single frame shootings.
- The function remains active until another function is selected in the Leica FOTOS app.

FLASH PHOTOGRAPHY

The camera determines the necessary flash intensity by firing one or more pre-flashes before taking the actual photo. 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 in conjunction with 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 M11-D, 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 which can therefore not automatically toggle the white balance of the camera, try using the white balance settings for flash photography provided in the Leica FOTOS app.

Important

- The use of incompatible flash units with your Leica M11-D 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 1/180 s 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 with flash is not possible.
- 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

→ 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

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)

The camera-controlled, fully automatic flash mode is available in this camera in conjunction with system-compatible flash units (see p. 73), and in both exposure modes (Aperture-priority Mode 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	
TTL	Automatic control by the camera
A	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
M	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 M11-D for use with system-compatible flash units (see p. 73). It is activated by the camera automatically if the selected or calculated shutter speed is faster than the sync speed (1/180 s).

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.

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

→ Select 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.

FLASH EXPOSURE DISPLAYS IN THE VIEWFINDER (with system-compatible flash units)

The flash icon in the viewfinder display of the Leica M11-D gives feedback on and indicates various operating states.

ϟ does not appear (despite the flash unit being switched on and ready)	• The flash unit doesn't fire. • A correct operating mode must be set on the flash unit or an HSS-compatible flash unit must be connected.
ϟ flashes slowly before shutter release (2 Hz)	• The flash unit is not ready.
ϟ lights up permanently before shutter release	• The flash unit is ready.
ϟ remains continuously lit after shutter release*	• The flash is still ready.
ϟ flashes rapidly after shutter release (4 Hz)*	• Successful flash photography • The flash unit is not yet ready for further use.
ϟ switches off after shutter release*	• Flash intensity was insufficient.

* only in TTL flash mode

OTHER FUNCTIONS

RESETTING THE CAMERA TO FACTORY SETTINGS

This function allows the reset of all custom settings back to their factory settings in one pass.

→ Press and hold the thumbwheel and the function button for 30 s.
  - A button-press counter is displayed in the viewfinder.

Notes
- Date and time will have to be set again after a full reset.

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. 80)
– directly above the camera

Finding the currently installed firmware version

→ Display the current firmware version in the Leica FOTOS app

More information about registering, firmware updates and their downloads for your camera, as well as any amendments and additions to the details provided in 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 can cause serious and irreparable damage to your equipment!
You will therefore have to take particular note of the following, when carrying out a firmware update:
- Do not switch off the camera!
- Do not remove the memory card!
- Do not remove the rechargeable battery!
- Do not detach the lens!

Note
- Additional device and country specific approval marks and certification numbers can be found in the Leica FOTOS app.

PREPARATION

→Any stored firmware files on the memory card must be removed
- We recommend saving any images on the memory card to another storage location before reformatting the card.
(Caution: Loss of data! All data stored on the memory card will be lost during formatting.)
- Make sure to back up any files saved to the internal memory as a precaution.

→Download the latest firmware version

→Save the firmware 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

→Fully charge and insert the rechargeable battery

UPDATING THE CAMERA FIRMWARE

→Press and hold the function button

→Switch the camera on
- While the update process is running, the status LED and the self-timer LED will flash red, and UP will be displayed in the viewfinder.

LEICA VISOFLEX 2 (EVF)[1]

An electronic viewfinder (EVF) can be attached to the Leica M11-D via its accessory shoe. Leica Visoflex 2* is an optional extra and offers the following functions:
– Swivel function for easy photography with various angles
– Diopter compensation
– Digital zoom
– Exposure preview

Important
All mentions of "EVF" or "Electronic Viewfinder" in this manual refer to the optional accessory Leica Visoflex **2**.
Using the older "Leica Visoflex" model with the Leica M11-D can – as a worst case scenario – result in irreparable damage to the camera and/or the Visoflex. Please contact Leica Customer Care if in doubt.

1 Visoflex was developed specifically for the M10 series, and is not compatible with Leica M11-D. The newly developed Visoflex 2, on the other hand, can also be used with older Leica M series models.

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 offers additional useful functions like the quick transfer of recordings and uploads of firmware updates.
Please read the legal notes on page 6.

→Scan the following QR code with the mobile device

or

→The app is available from Apple App Store™/ Google Play Store™

CONNECTION

CONNECTIVITY MODE

SWITCHING ON

Enable Connectivity Mode to activate the camera's WLAN and Bluetooth capability.

→Press and hold the thumbwheel for 12 s
- The status LED will flash 5x blue and then continuously green for 5 s.

Note
- Disable Connectivity Mode when WLAN and Bluetooth are no longer needed to extend battery life.

SWITCHING OFF

→Press and hold the thumbwheel for 12 s
- The status LED will flash 5x blue and then continuously red for 5 s.

STATUS CHECK

Check the viewfinder display to see if Connectivity Mode is enabled or disabled.

→Press and hold the function button until Con appears in the viewfinder
- The display Con toggles on or off in line with the status of Connectivity Mode. When Connectivity Mode is enabled, on will be displayed. When Connectivity Mode is disabled, oFF will be displayed.

FIRST-TIME CONNECTION TO A MOBILE DEVICE

A pairing of the camera and the mobile device is required for a first-time connection to a mobile device.

VIA LEICA FOTOS CABLE (for iPhone only)

→Check that USB Mode is set to MFi
- APP appears in the viewfinder

→Connect the camera and mobile device via the Leica FOTOS cable

→Follow the instructions provided by the Leica FOTOS app

VIA WI-FI

VIA THE CAMERA

→Ensure that the camera's Connectivity Mode is enabled

→Press and hold the function button for 5 s
- A button-press counter is displayed in the viewfinder.
- The status LED flashes blue (2 Hz), once the function button is released.
- The camera is now ready for pairing.

ON THE MOBILE DEVICE

→Enable WLAN and Bluetooth

→Launch the Leica FOTOS app

→Add the camera

→Select the camera model

→Initiate the connection
- Pairing begins. The process may take a few seconds.
- The status LED will flash briefly after successful pairing.

Notes
- A disabled Connectivity Mode will not allow allow pairing. Connectivity Mode must be enabled.
- Each mobile device only needs to be paired with the camera once. The process adds the device to the list of known devices.

CONNECTING WITH PAIRED DEVICES

VIA LEICA FOTOS CABLE (for iPhone only)

The Leica FOTOS Cable makes connectivity particularly easy and quick.

→Check that USB Mode is set to MFi

- APP appears in the viewfinder

→Connect the camera and mobile device via the Leica FOTOS cable

- The connection is established automatically.

VIA WI-FI

VIA THE CAMERA

→Ensure that the camera's Connectivity Mode is enabled

ON THE MOBILE DEVICE

→Enable WLAN and Bluetooth

→Launch the Leica FOTOS app

→Select the camera

→Confirm the prompt

- The camera connects to the mobile device automatically.

REMOVING PAIRED DEVICES

All devices on the pairing list can be removed.

→Press and hold the thumbwheel and the function button for 10 s.

- A button-press counter is displayed in the viewfinder.

EXECUTING A FIRMWARE UPDATE

Any interruption of a running firmware update can cause serious and irreparable damage to your equipment!
You will therefore have to take particular note of the following, when carrying out a firmware update:

- Do not switch off the camera!
- Do not remove the memory card!
- Do not remove the rechargeable battery!
- Do not detach the lens!

Leica FOTOS will notify you when firmware updates are available for your Leica cameras.

→ Follow the instructions provided by the Leica FOTOS app

Notes

- Make sure that the battery is fully charged.
- Alternatively, firmware updates can be installed directly via the camera.

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 in 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 you 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 daylight 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 microfiber 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.
- Make sure not to apply too much lubricant to the bayonet and take particular care not to apply grease in the immediate vicinity of the 6-bit encoding. Too much lubricant will result in grease residue lodging in the gap, where dirt will then accumulate. The legibility of the code would be impacted, which may cause camera malfunctions in digital M models.

VIEWFINDER

- 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. You can check the current charge level of the battery in the viewfinder display. 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 memory cards from time to time, as fragmented residual data from deleted files may block some of the storage capacity.
- We recommend the use of UHS-II memory cards.

SENSOR

SENSOR CLEANING

Alternatively, send your camera to the Leica Customer Care department for sensor cleaning (see p. 98). This service is not part of the warranty offering and will therefore incur charges.

Note

- Leica Camera AG will not accept any responsibility for damage caused by the user when cleaning the sensor.

→Fully charge and insert the rechargeable battery

→Press and hold the function button

→Press the shutter button

- The shutter remains open.
- The self-timer LED lights continuously.

→Clean the sensor

- Make sure you follow the instructions below.

→Switch off the camera after cleaning.

- The self-timer LED flashes.
- The shutter will remain open for another 10 s.

Important

- Any inspection or cleaning of the sensor should be done in an environment that is as much as possible dust-free to prevent further contamination.
- Make sure that the aperture is unobstructed and that nothing can prevent the shutter from closing correctly, as this would result in damage to the equipment!
- Do not attempt to physically blow dust particles off the cover glass of the sensor. The smallest droplets of saliva could cause stains that will be difficult to remove.
- Do not use high pressure compressed air cleaners as they may also cause damage.
- Avoid touching the sensor surface with any hard object during inspection and cleaning.

Important
All mentions of "EVF" or "Electronic Viewfinder" in this manual refer to the optional accessory Leica Visoflex **2**.
Using the older "Leica Visoflex" model with the Leica M11-D can – as a worst case scenario – result in irreparable damage to the camera and/or the Visoflex. Please contact Leica Customer Care if in doubt.

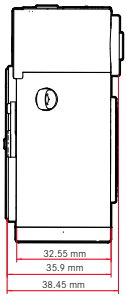
Problem	Possible causes to check	Troubleshooting suggestions
Battery issues		
Battery is depleted too quickly	Battery too cold	Warm the battery (e.g. in pants pocket) and only insert directly before use
	Battery too hot	Allow battery to cool down
	Power save mode deactivated	Enable camera standby
	Permanent WLAN connection	Deactivate WLAN when not in use
	Battery has been recharged too many times	The battery has reached the end of its service life. Replace battery
Charging process not starting	Incorrect battery polarization or faulty charger connection	Check polarization and connection
The charging process via the USB of my PC will not commence	USB ports of different output currents are distinguished according to USB charging specifications: – Standard Downstream Port (SDP) – Charging Downstream Port (CDP) – Dedicated Charging Port (DCP)	Any device connected to a USB port will automatically recognize the port type. The charging process will not commence if the available output current of that port is too low: – USB 2.0 (SDP): max. 500 mA, battery will not charge – USB 3.0 (CDP): max. 900 mA, battery will be charged at low current – USB charger M11-D (DCP): max. 1.5 A, battery charges correctly
Charging takes too long	Battery too hot or too cold	Charge the battery at room temperature
	The USB charger doesn't deliver sufficient power	The USB charger must deliver >= 1.7 A to allow fast charging.
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 service life. Replace battery
Camera problems		
The camera suddenly switches itself off	Battery is depleted	Charge or replace the battery

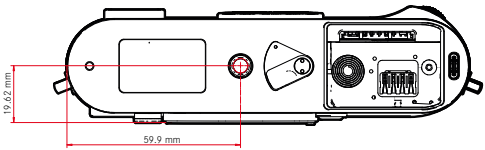
The camera won't switch on	Battery is depleted	Charge or replace the battery
	Battery too cold	Warming the battery (e.g. in pants pocket)
	Battery was inserted incorrectly	Check its polarization
	Bottom cover was inserted incorrectly	Check the directionality and lock
The camera switches off again immediately after it is switched on	Battery is depleted	Charge or replace the battery
Camera does not recognize the memory card	The memory card is not compatible or defective	Replace the memory card; we recommend the use of UHS-II memory cards.
	Memory card is incorrectly formatted	Reformat the memory card (Caution: Loss of data!)
Displays		
The number of remaining shots does not count down after shooting	The image requires only very little memory space	This is not a fault; the number of remaining shots is calculated as approximations
Desired shutter speed cannot be set	The working range of the set shutter type is undercut/surpassed	Select another shutter type
	The set ISO value prevents very slow shutter speeds	Select a different ISO value
Cannot set ISO values in the viewfinder	The ISO dial is set to a fixed ISO value or to **A** (Auto ISO)	Turn the ISO setting dial to **M**
Shooting		
The camera won't release/shutter button is deactivated/shooting not passible	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
	Camera has switched off automatic (Camera Standby)	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 image	Wait
	Image numbering has reached its limit	See section "Data Management"

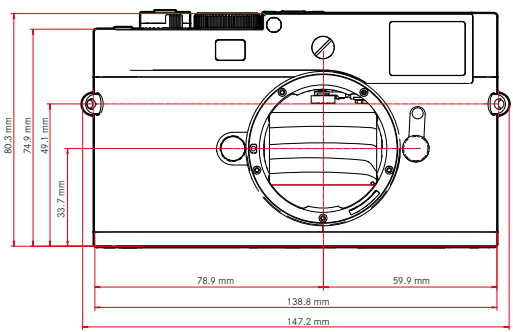
The EVF shows image noise while the shutter button is pressed to the first pressure point	The gain is increased to aid image composition if the object is insufficiently lit with reduced lens aperture	Not a fault – image quality will not be impacted
EVF deactivates after a very short time	Power Save settings are activated	Deactivate auto standby as needed
Flash won't fire	Battery is depleted	Charge or replace the battery
	Pressing the shutter button while flash is still loading	Wait until the flash is loaded
	Continuous Shooting is enabled	Change the setting
	The electronic shutter function does not allow flash photography	Select another shutter type
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
No continuous shooting available	The camera is overheated and the function was temporarily disabled to protect the camera	Allow camera to cool down
The EVF image displays a lot of noise	EVF light enhancement function in dark surroundings	Not a fault – image quality will not be impacted
Image storage takes a long time	Noise reduction is activated for long-term exposures	Deactivate the function
	The memory card inserted is slow	Use a suitable memory card
Picture Management		
Selected images cannot be deleted	Some of the selected images are write protected	Remove write protection (using the device with which the file was originally set to write protected)
File numbering does not start at 1	The memory card contains previously stored images	See section "Data Management"
The time and date settings are incorrect or are not displayed	The camera has not been in use for an extended period of time (the battery was removed)	Insert a charged battery and configure the correct settings
Lens information is not displayed	The attached lens is not encoded	Contact Leica Customer Care
Images are damaged or missing	The memory card was removed while the status LED was flashing	Never remove the memory card while the status LED is flashing. Charge the battery.
	The memory card formatting is faulty or the card is damaged	Reformat the memory card (Caution: Loss of data!)
No shots/only shots taken in DNG format are saved to the memory card	All No shots/only shots taken in DNG format are saved to the internal memory	Choose another setting

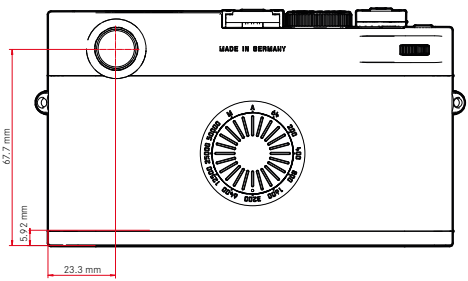
Image quality		
The image is too bright	Light sensor was covered during shooting	Make sure that the light sensor is not obstructed
Image noise	Long exposure times (>1s)	Activate the noise reduction function for long-term exposure
	ISO sensitivity set too high	Decrease ISO sensitivity
Round white stains, similar to soap bubbles	Flash photography in a very dark environment: reflections of dust particles	Deactivate the flash
Images are out of focus	Lens is dirty	Clean the lens
	Camera moved during shooting	Use flash
		Mount the camera on a tripod
		Use faster shutter speeds
	The desired subject elements were not congruent in the viewfinder	Ensure perfect congruence of the object in the rangefinder
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 or turn the shutter-speed dial to **A**
The image is grainy or there is image noise	ISO sensitivity set too high	Decrease ISO sensitivity
Unnatural colors and brightness	Shooting in artificial light or extreme brightness	Try shorter shutter speeds
The shots in JPG format have a lesser resolution than was set	DNG + JPG is selected for File Format, and a lesser resolution is set under DNG Resolution	Select a higher DNG resolution or only save in JPG format
Smartphones/WLAN		
WLAN connection gets interrupted	Camera deactivates when it overheats (safety feature)	Allow camera to cool down
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

TECHNICAL DATA









CAMERA

Designation
Leica M11-D

Camera type
Digital system camera with rangefinder

Type No.
2221

Order No.

	Regional variant		
	EU/US/CN	JP	ROW
Order No. (Color)	20220 (black)	20221 (black)	20222 (black)
Wi-Fi 5 GHz	11a/n/ac: Channel 149–165 (5745–5825 MHz)	11a/n/ac: Channel 36–48 (5180–5240 MHz) (for indoor use only)	-
Wi-Fi 2.4 GHz	11b/g/n: Channel 1–11 (2412–2462 MHz)		
Bluetooth	4.2 LE: LE channel 0–39 (2402–2480 MHz)		

Storage medium
UHS-II (recommended), UHS-I, SD/SDHC/SDXC memory card
SDXC cards up to 2 TB
Internal memory: 256 GB

Material
Top/bottom cover: coated aluminum
Front and rear housing panels: magnesium

Lens mount
Leica M bayonet with additional sensor for 6-bit encoding

Operating conditions
0°C to +40°C

Interfaces
ISO accessory shoe with additional control contacts for Leica flash units and Leica Visoflex 2 viewfinder (optional accessory)
USB 3.1 Gen1 Type-C

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

Weight
approx. 540 g (incl. bayonet cover and battery)

SENSOR

Sensor size
CMOS chip, active surface approx. 24 x 36 mm

Processor
Leica Maestro series (Maestro III)

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

File formats
DNG™ (raw data, loss-free compression), DNG + JPG, JPG (DCF, Exif 2.30)

Image resolution

DNG™	L-DNG	60.4 MP	9536 x 6336 pixels
	M-DNG	36.6 MP	7424 x 4936 pixels
	S-DNG	18.5 MP	5280 x 3506 pixels
JPG	L-JPG	60.1 MP	9504 x 6320 pixels
	M-JPG	36.2 MP	7392 x 4896 pixels
	S-JPG	18.2 MP	5248 x 3472 pixels

File size

DNG™	L-DNG	approx. 70–120 MB
	M-DNG	approx. 40–70 MB
	S-DNG	approx. 20–40 MB
JPG	L-JPG	approx. 15–30 MB
	M-JPG	approx. 9–18 MB
	S-JPG	approx. 5–9 MB

JPG: depending on resolution and image content

Color depth

DNG™: 14 bit

JPG: 8 bit

Color space

sRGB

VIEWFINDER

Viewfinder

Large, bright-line rangefinder with automatic parallax compensation

Suitable for -0.5 dpt; optional corrective lenses available: -3 to +3 dpt

Display

Four-digit digital display with items show on the top and bottom

Image field limiter: two lit frames: 35 mm + 135 mm, 28 mm + 90 mm, 50 mm + 75 mm (automatic switchover when lens is attached)

Parallax compensation

The horizontal and vertical difference between viewfinder and lens is compensated automatically in line with the relevant focus setting. Congruence of viewfinder and actual image.

The size of the bright-line frame matches the distance:

- at 2 m: the exact sensor size of approx. 23.9 x 35.8 mm
- at infinity: (depending on focal length) approx. 7.3% (28 mm) to 18% (135 mm)
- less than 2 m: less than sensor size

Viewfinder magnification

0.73x (all lenses)

Large-base rangefinder

Split or superimposed image rangefinder shown as a bright field at the center of the viewfinder image

SHUTTER

Shutter type

Electronically controlled focal plane shutter and electronic shutter function

Shutter speeds

Mech. shutter: 60 min to 1/4000 s

Electro. shutter function: 60 s to 1/16000 s

Flash Synch: up to 1/180 s

Optional noise reduction via additional "black picture" (can be disabled)

Shutter button

Two-stage

(Step 1: activation of the camera electronics including exposure metering and exposure lock, Step 2: release)

Self-timer

Delay time: 2 s or 12 s

Drive mode

Single	
Continuous - Low Speed	3 fps
Continuous - High Speed	4.5 fps

FOCUSING

Focusing range

70 cm to ∞

Focus mode

Manual

EXPOSURE

Exposure metering

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

Metering principle

Exposure metering occurs via the image sensor for all exposure metering methods

Exposure metering methods

Spot, Center-Weighted, Multi-Field, Highlight-Weighted

Exposure modes

Aperture-priority mode (A): automatic shutter speed control with manual aperture preselection

Manual (M): manual setting for shutter speed and aperture

Exposure compensation

±3 EV in 1/3 EV increments

ISO sensitivity range

Auto ISO: ISO 64 (native) to ISO 50 000, also available in flash mode

Manual: ISO 64 to ISO 50 000

White balance

Automatic (Auto), Default (Daylight - 5200 K, Cloudy - 6100 K, Shadow - 6600 K, Tungsten - 2950 K, HMI - 5700 K, Fluorescent (warm) - 3650 K, Fluorescent (cool) - 5800 K, Flash - 6600 K)

FLASH EXPOSURE CONTROL

Flash unit connector

Via the accessory shoe

Metering principle

Flash exposure metering occurs via the image sensor for all exposure metering methods

Flash sync time

↜ : 1/180 s, slower shutter speeds available, automatic switchover to TTL linear flash mode with HSS-compatible Leica system flash units if sync time is undercut

Flash exposure metering

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

Displays in flash mode

(viewfinder only)

Flash icon: connection of an external flash unit

EQUIPMENT

WLAN

The Leica FOTOS app is required to use the WLAN function. The Leica app is available from the Apple App Store™ or the Google Play Store™. 2.4 GHz/5 GHz dual band IEEE802.11 a/b/g/n/ac Wave2 WLAN (standard WLAN protocol), encryption method: WLAN-compatible WPA™/WPA2™, access method: infrastructure mode

	Regional variant		
	EU/US/CN	JP	ROW
Wi-Fi 5 GHz	11a/n/ac: Channel 149–165 (5745–5825 MHz)	11a/n/ac: Channel 36–48 (5180–5240 MHz)	-
Wi-Fi 2.4 GHz	11b/g/n: Channel 1–11 (2412–2462 MHz)		

Bluetooth

Bluetooth v4.2 LE: LE Channel 0–39 (2402–2480 MHz)

GPS

Geotagging via Leica FOTOS app using Bluetooth

Content credentials

The certificate stored in the camera has a validity of 10 years. Once the then years have elapsed, the certificate can be renewed via Leica Camera AG.

POWER SUPPLY

Rechargeable battery (Leica BP-SCL7)

Li-Ion (Lithium-Polymer) rechargeable battery, rated voltage: 7.4 V / capacity: 1800 mAh, Charging voltage/current: DC 1000 mAh, 7.4 V, operating conditions: +10°C to +35°C (charging) / +0°C to +40°C (discharged), manufacturer: Fuji Electronics (Shenzhen) Co., Ltd. made in China

The date of manufacture can be found on the battery. The date format is year/month/day.

Approx. 700 shots (in accordance with CIPA Standard in rangefinder mode), up to approx. 1700 shots (Leica adapted shooting cycle)

Charger (Leica BC-SCL7)

(optional accessory)

Input: USB-C DC 5 V, 2 A, output: DC 8.4 V, 1 A, operating conditions: +10°C to +35°C, manufacturer: Dee Van Enterprises Co., Ltd., made in China

Switching adapter (Leica ACA-SCL7)

(optional accessory)

Input: AC 110 V - 240 V ~ 50/60 Hz, 0.3 A, output: DC 5 V, 2 A, operating conditions: +10°C to +35°C, manufacturer: Dee Van Enterprises Co., Ltd., made in China

USB power supply

When in standby mode or Off: USB charging function

When On: USB power supply and intermittent charging

LEICA CUSTOMER CARE

Please contact the Customer Care department of Leica Camera AG for the maintenance of your Leica equipment and for help and advice regarding Leica products and how to order them. You can also contact the Customer Care department or the repair service provided by your regional Leica subsidiary for repairs or warranty claims.

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LEICA AKADEMIE

Have a look at our full seminar program with many interesting workshops on the topic of photography at:
https://leica-camera.com/en-US/leica-akademie

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