

# TECHNICAL DATA

## CAMERA

### Designation

Leica CL

### Camera type

Digital APS-C system camera

### Type no.

7323

### Order No.

19 300 (silver) / 19 301 (black)

### Buffer memory

DNG™: 14 recordings

JPG: 25 recordings

### Storage medium

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

### Material

Top cover and bottom cover: milled and anodized aluminum, front and rear panels: magnesium

### Lens mount

Leica L bayonet with contact strip for communication between lens and camera

### Compatible lenses

Lenses with Leica L bayonet, Leica M/R lenses using the Leica M Adapter L/Leica R Adapter L

### Operating conditions

0/+40°C

### Dimensions (WxHxD)

131 x 78 x 45 mm

### Weight

Approx. 403 g/353 g (with/without battery)

## SENSOR

### Sensor size

APS-C-sized CMOS sensor (23.6 x 15.7 mm) with 24.96/24.24 million pixels (total/effective), aspect ratio: 3:2

### Picture resolution

DNG™: 6016 x 4014 pixels (24 MP)

JPG: 6000 x 4000 pixels (24 MP), 4272 x 2856 pixels (12 MP), 3024 x 2016 pixels (6 MP)

## VIEWFINDER/LCD PANEL

### Viewfinder (EVF)

Resolution: 1024 x 768 pixels (2,36 MP), magnification: 0.74x, aspect ratio: 4:3, exit pupil position: 20 mm, setting range +4/-4 diopters, with eye sensor for automatic switchover between viewfinder and LCD panel

### LCD panel

3" TFT LCD, 1.04 MP, touch control available

### Top display

Resolution: 128 x 58 pixels

## EQUIPMENT

### WLAN

The Leica FOTOS app is required to use of the WLAN function. The Leica app is available from the Apple App Store™ or the Google Play Store™. Complies with IEEE 802.11b/g/n standard (standard WLAN protocol), channel 1-11, encryption method: WiFi-compatible WPA™ / WPA2™, access method: Infrastructure mode WLAN-compatible WPA™/WPA2™, Access method: Infrastructure mode

### Menu languages

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

### Firmware version

3.0

## POWER SUPPLY

### Battery (Leica BP-DC12)

Lithium-ion rechargeable battery, rated voltage: 7.2 V  $\approx$  (7.2 V DC); capacity: 1200 mAh, approx. 220 recordings (based on CIPA standard); charging time: approx. 140 min (after deep discharge); manufacturer: Panasonic Energy (Wuxi) Co. Ltd., Made in China

### Charger (Leica BC-DC12)

input: AC 100–240 V, 50/60 Hz, automatic switchover; output: DC 8.4 V 0.65 A; manufacturer: Shin Tech Engineering Ltd., Made in China

# SAFETY REMARKS

## GENERAL INFORMATION

- Do not use your camera in the immediate vicinity of devices with powerful magnetic, electrostatic or electromagnetic fields (e.g. induction ovens, microwave ovens, television sets or computer monitors, video game consoles, cell phones, broadcasting equipment). Their electromagnetic fields can interfere with recordings.
- Image recording may be affected if you place the camera on a television set or operate the camera in its vicinity or near a cell phone.
- Strong magnetic fields, e.g. from speakers or large electric motors can damage the stored picture data or disrupt recording.
- Switch off the camera, remove the battery 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 interfere with recordings.
- Always store small parts e.g. the accessory shoe cover as follows:
  - out of the reach of children
  - in a safe location, where they will not get lost or stolen
- State-of-the-art electronic components are sensitive to static discharge. You can easily pick up charges of several 10,000 volts by simply walking on synthetic floor coverings. A static discharge can occur when you touch the camera and especially if it is placed on a conductive surface. A static discharge on the camera housing poses no risk for the electronics. Despite built-in safety circuits, you should avoid direct contact with external camera contacts like those in the flash shoe.
- Take care not to soil or scratch the sensor for lens detection (6-bit encoding) 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 direct frontal sunlight. The camera must therefore be protected against extended exposure to direct sunlight. Using 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 might explode!
- Keep the battery away from sources of heat in case of a leak or a smell of 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.
- The in-car charging cable must never be connected while the charger is connected to mains electricity.
- Do not attempt to open the battery or the charger. Repairs must only be carried out by authorized service centers.
- Keep batteries out of the reach of children. Batteries can cause suffocation when swallowed.

## **CHARGER**

- Using the charger in the vicinity of broadcasting receivers may interfere with reception. Ensure a distance of at least 1 m (3 ft) between the charger and the receiver.
- When the charger is in use, it may emit a buzzing sound – this is normal and not a malfunction.
- Disconnect the charger from the mains when it is not in use, because it consumes some a very small amount electricity, even when no battery is inserted.
- Always keep the charger contacts clean, and never short circuit them.

## **MEMORY CARD**

- Never remove the memory card during a datasave or card reading process. The camera must not be switched off or be subjected to impact or vibrations while working.
- Do not open the compartment or remove the memory card or battery while the status LED is flashing to indicate camera 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**

- Once you have attached the carry strap, please make sure that the clips are mounted correctly to prevent the camera from falling.
- 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 with a high risk of getting entangled in the carry strap (e.g. mountain climbing and similar outdoor activities).

# REGULATORY INFORMATION

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

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

 Alternating current (AC)	 Class II devices (the product has a double-insulated design)
 Direct current (DC)	



## DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT

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

This device contains electric and/or electronic components which must not be disposed of in general household waste. Instead, it should be disposed of at a recycling collection point provided by your local authority. This service is free of charge. Any standard or rechargeable batteries used in this device must be removed and disposed of separately in accordance with local regulations. Please contact your local authorities, waste disposal collection point or the retailer, from whom you purchased the device for more information on correct waste disposal.

### Deutsch

#### Konformitätserklärung (DoC)

Die Leica Camera AG\* bestätigt hiermit, dass dieses Produkt den grundlegenden Anforderungen und sonstigen relevanten Vorgaben der Richtlinie 2014/53/EU entspricht.

Kunden können eine Kopie der Original-DoC zu unseren RE-Produkten von unserem DoC-Server herunterladen:

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

Wenden Sie sich im Fall weiterer Fragen an den Produkt Support der Leica Camera AG: Am Leitz-Park 5, 35578 Wetzlar, Deutschland

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

Type	Frequency band (central frequency)	Maximum power (dBm e.i.r.p.)
WLAN	2412-2462/5180-5240 MHz/ 5260-5320/5500-5700 MHz	20
Bluetooth® Wireless Technology	2402-2480 MHz	20

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



# LEICA CL

## QUICK START GUIDE



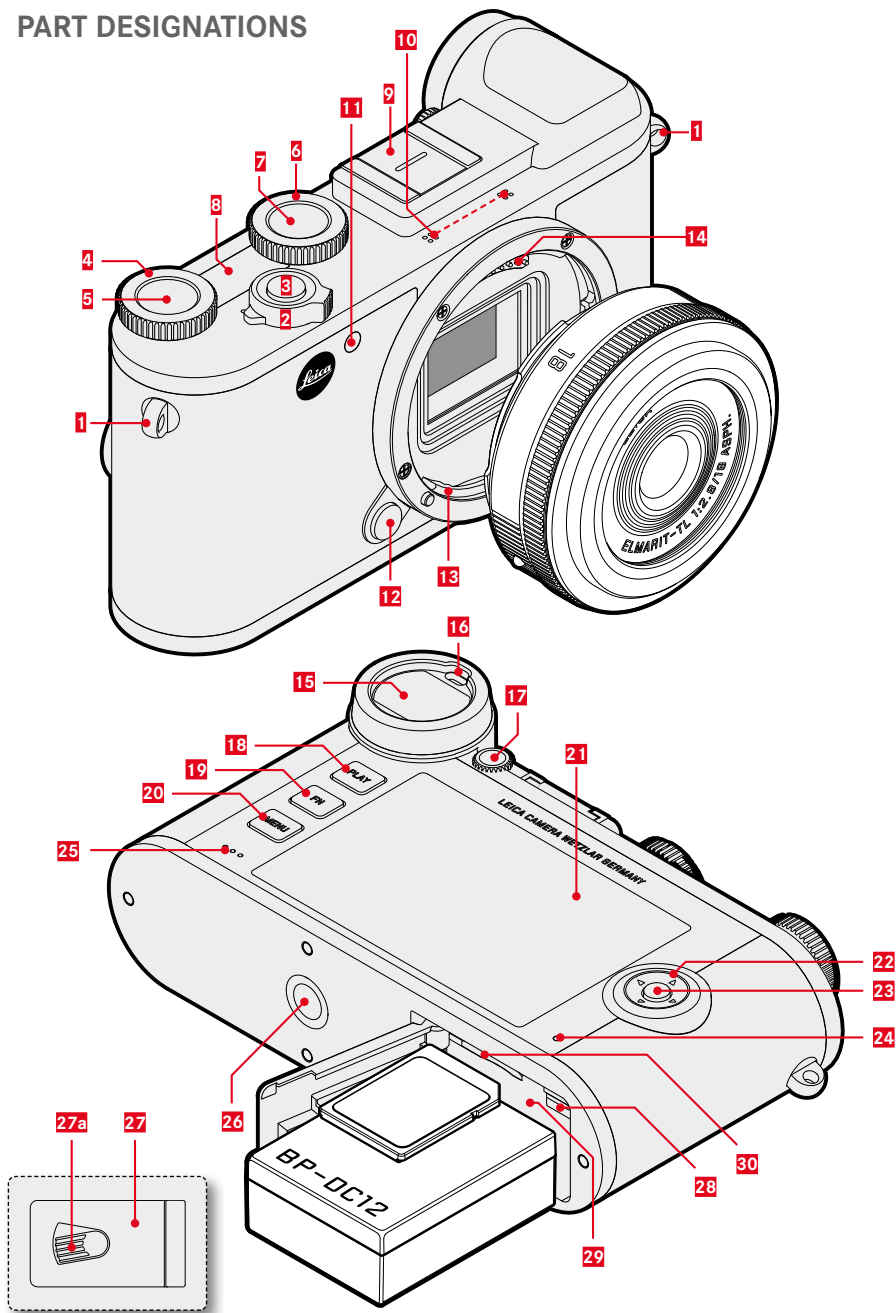
Download the full scope instruction manual here:

**<https://en.leica-camera.com/Service-Support/Support/Downloads>**

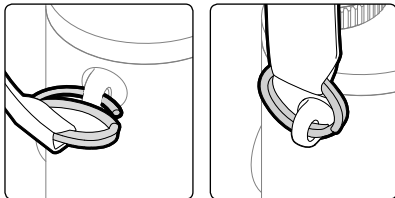
Please register via the following link if you would like to receive a printed copy of the full scope instruction manual:

**[www.order-instructions.leica-camera.com](http://www.order-instructions.leica-camera.com)**

# PART DESIGNATIONS



## 1 Strap lugs



## 2 Main switch

Switching the camera ON/OFF

## 3 Shutter button

- Tap:
  - autofocusing
  - Activates exposure metering and exposure control
- Press down fully:
  - the picture is taken
  - Starting and stopping the videorecording
- in standby mode:
  - The camera is reactivated

## 4 Right Wheel

- in the menu:
  - Scrolling within the menu
- in recording mode:
  - see table
- in review mode:
  - Zooming in/out of the frame

## 5 Right Wheel Button

- in recording mode:
  - Direct access to menu functions (Tap briefly)
  - Changing button assignment (Press and hold)
- in review mode:
  - Picture magnification

## 6 Left Wheel

- in recording mode:
  - see table
- in review mode:
  - Scrolling

## 7 Left Wheel Button

- in recording mode:
  - Accessing the exposure mode (Tap briefly)
  - Locking/unlocking the buttons and setting dials (press and hold)
- in review mode:
  - Marking a frame as favorite

## 8 Top display

Display of the exposure mode, aperture value, shutter speed and any configured ISO/EV value

## 9 Accessory shoe

Recommended flash units:

Leica SF 40, SF 64 and SF 58

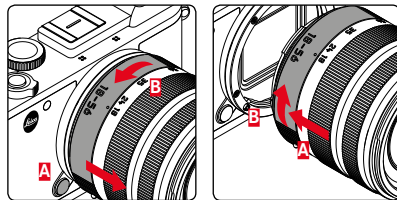
## 10 Microphone

Sound is recorded in stereo

## 11 Self-timer LED/AF assist light

## 12 Lens release button

## 13 Leica L Bayonet



## 14 Contact strip

## 15 Viewfinder eyepiece

## 16 Eye sensor

Available settings: LCD panel only / EVF only / automatic switchover

## 17 Dioptre setting wheel

Setting range: +4/-4 dioptre

## 18 PLAY Button

Switchover between picture and playback / review mode

## 19 FN button

- in recording mode:
  - Direct access to menu functions (Tap briefly)
  - Changing button assignment (Press and hold)
- in review mode:
  - Delete function

## 20 MENU button

- in the menu:
  - Scrolling through the menu screens
- in recording mode:
  - Accessing the menu
- in review mode:
  - Accessing the Playback / Review menu



## 21 LCD panel



3" TFT LCD, 1.04 MP, touch panel

## 22 Directional pad

- in the menu:
  - Scrolling within the menu
  - Changing the settings
- in recording mode:
  - Moving the focal point (Field or Spot AF)

## 23 Center button

- in the menu:
  - Confirming the settings
  - Accessing submenus
- in recording mode:
  - Accessing the various info screens
- in review mode:
  - Call up of image information and confirming a deletion

## 24 Status LED

- Memory card access
- Using the WLAN function
- Firmware updates

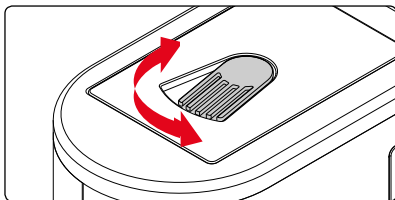
## 25 Speaker

## 26 Tripod thread

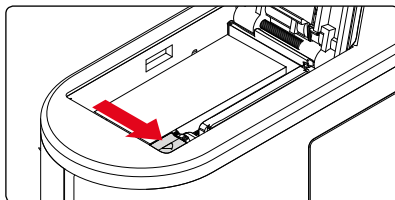
A 1/4 DIN 4503 (1/4")

## 27 Cover for battery compartment and memory card slot

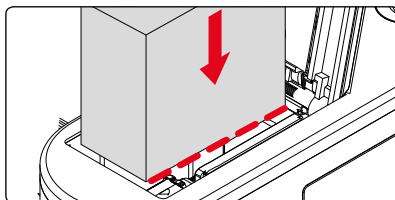
a Release lever



## 28 Battery release lever

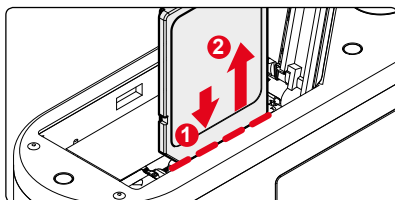


## 29 Battery compartment

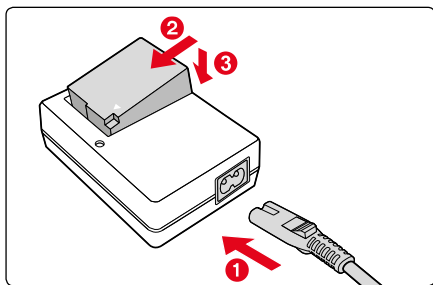


## 30 Memory card slot

UHS-II, UHS-I, SD-/SDHC-/SDXC



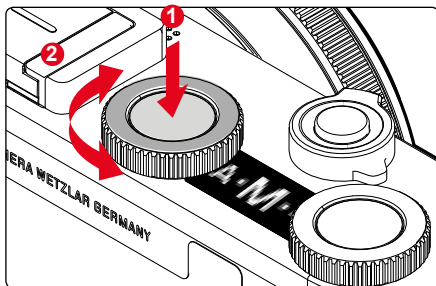
## CHARGING THE BATTERY



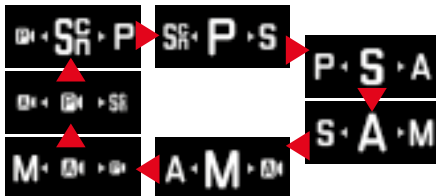
A properly operating charging process is indicated by the status LED lighting up. The battery will be fully charged when the green LED switches off.

# FUNCTIONS AND SETTINGS

## SELECTION FOR RECORDING MODE

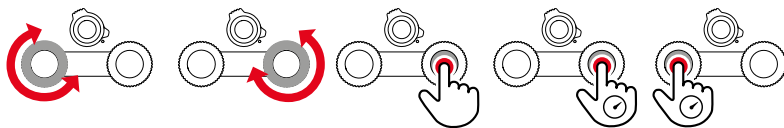


- 1 Press left setting wheel button **7**
- 2 Turn left setting wheel **6** to select recording mode



## SETTING WHEEL/SETTING WHEEL BUTTON ASSIGNMENT

(Factory setting)

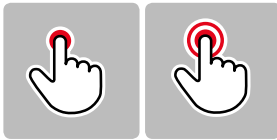


Function assignment for left or right setting wheel

<b>P</b>	Exposure compensation	Program shift	ISO	Changing button assignment	Locking/unlocking of all buttons / setting wheels
<b>S</b>	Shutter speed	Exposure compensation			
<b>A</b>	Exposure compensation	Aperture			
<b>M</b>	Shutter speed				
<b>A</b>	Exposure compensation				
<b>P</b>	Exposure compensation	Exposure compensation			
<b>SC</b>	Exposure compensation	Exposure compensation			

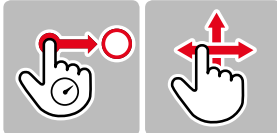
## TOUCH CONTROL OPERATIONS

### GESTURE CONTROL



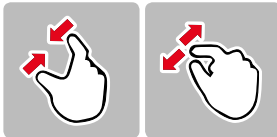
Tap briefly

Tap twice



Touch and hold,  
drag and drop

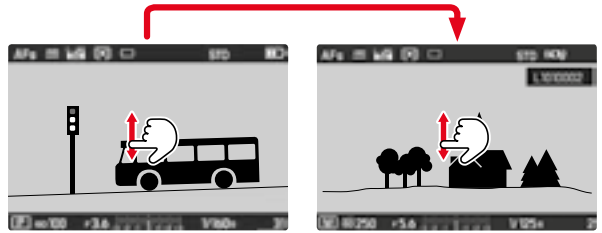
Swipe  
horizontally/  
vertically



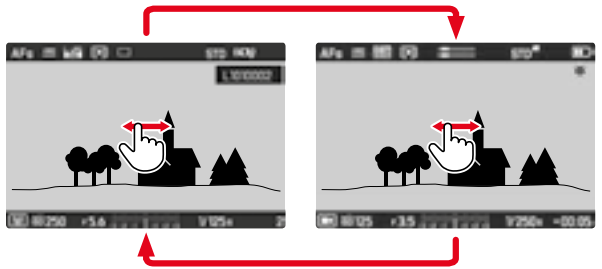
Two-finger  
pinch

Two-finger  
spread

### SWITCHOVER: PICTURE/RECORDING AND PLAYBACK/REVIEW MODE

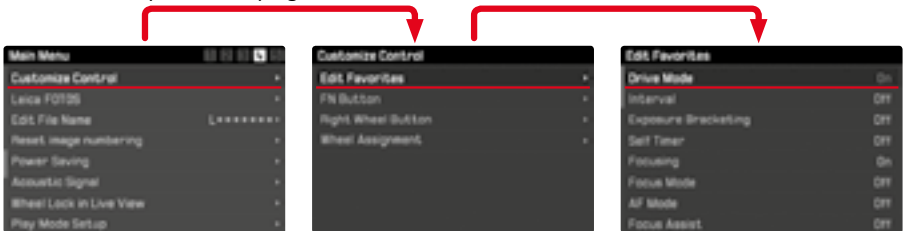


### SWITCHOVER: PHOTO/VIDEO



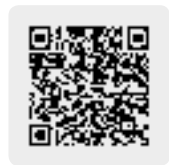
## INDIVIDUAL MENU SETTINGS

**Favorites** menu / FN Button / right wheel button



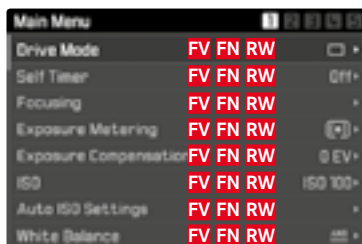
## LEICA FOTOS APP

Experience the new Leica FOTOS app. Leica FOTOS is a digital tool with plenty of exciting options and allows the photographer to get more out of his Leica camera than ever before. You can now link all your WLAN-capable Leica cameras via a single app to transfer images easily and instantly, capture the essence of unforgettable moments, manage, optimize and share your photos - anytime, anywhere.



## FACTORY SETTING

### MAIN MENU



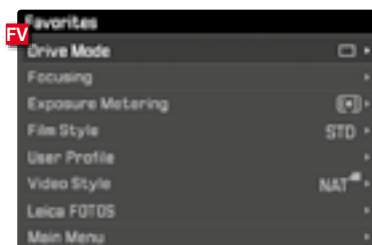
### AVAILABILITY FOR Favorites MENU AND DIRECT ACCESS

**FV** Favorites menu

**FN** FN button

**RW** Right wheel button

### Favorites menu



### DIRECT ACCESS LISTS

#### FN button



#### Right wheel button

