



CALONOX SIGHT SE

QUICK START GUIDE

DOWNLOAD
INSTRUCTIONS



leica-camera.com/Service-Support



2022-10-1-1.0 DE/EN/FR/NL/IT/ES/NO/SE/DK

FOREWORD

Dear Customer,

we wish you a great deal of enjoyment and every success with your new Leica product. Please read the long form manual before using the product for the first time. Knowledge of the content will prevent inadvertent damage to the product, possible injuries and other risks. You can download the long form manual here:

<https://leica-camera.com/en-int/downloads>

LEGAL INFORMATION

CE MARK

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

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

Depending on product (see technical data)

Type	Frequency band (center frequency)	Maximum output (dBm E.I.R.P.)
WLAN	2412–2462 MHz	20
Bluetooth® Wireless Technology	2402–2480 MHz	20

DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT

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



This device contains 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.

REGULATORY INFORMATION

You will find the manufacturing date of your product on the stickers on the packaging. The date format is year/month/day.

SAFETY REMARKS

GENERAL INFORMATION

- Do not use your device in the immediate vicinity of devices with 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 recordings.
- Image recording may be affected if you place the device on a television set or operate it in close proximity of a TV 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.
- Do not use the device in the immediate vicinity of radio transmitters or high-voltage power lines. Their electromagnetic fields may interfere with recordings.
- Do not attempt to remove parts of the housing (covers) yourself. Repairs must be done at authorized service centers only.
- The device must not come into contact with insect repellent sprays or other aggressive chemicals. Petroleum spirit, thinner and alcohol must not be used for cleaning. Some chemicals and liquids may damage the device housing or its surface coating.

EYEPIECE

- An eyepiece can have the effect of a magnifying glass when exposed to direct frontal sunlight. The device must therefore be protected against extended exposure to direct sunlight. Storing the device in the shade or ideally in its case will help prevent damage to the device interior.

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 device falling.
- The carry strap is 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.
- The carry strap should only be used for their intended purpose. 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 never be used for cameras/binoculars during sports activities that pose a risk of entanglement (e.g. when mountain climbing and similar outdoor activities).

WARRANTY

In addition to your statutory warranty rights from your dealer, Leica Camera AG offers a 3-year warranty for this Leica product in accordance with the conditions started below. The Leica warranty does not impact on any statutory consumer rights in accordance with relevant national law or any consumer rights vis-a-vis the retailer arising from the purchase contract concluded between them.

WARRANTY CONDITIONS

By purchasing this Leica thermal imaging camera, you have acquired a product that is manufactured in compliance with special quality standards, and which was thoroughly tested at each individual production step by experienced specialists. Our three-year warranty for this product commences on the date of sale by an authorized retailer under the following conditions:

1. In case of a complaint due to a manufacturing fault, we will assume all material costs during the warranty period. We shall decide at our own discretion to repair the faulty product, to replace faulty parts or to replace the entire product with a faultless product of the same type. All other claims of any kind and on whatever legal basis shall not be accepted in connection with this warranty.
2. Wear parts like eyecups, leather details, armoring, carry straps and accessories are exempt from the warranty. The same applies for surface damage.
3. Any warranty claims become void if the defect in question is a result of improper handling – which also includes the use of third-party accessories – or if the product was manipulated by unauthorized persons or workshops or if the serial number of the product was rendered illegible.
4. Warranty claims can be submitted only in conjunction with the original proof of purchase – complete with the date of purchase, as well as the address and signature of an authorized retailer.
5. In case of a warranty claim, please send the Leica product, the original proof of purchase and a description of the fault to Leica Camera AG Customer Care or a Leica regional subsidiary.

PICK-UP SERVICE FOR REPAIR SUBMISSIONS

(Applies for EU only)

We will organize the shipping of your device to our Customer Care department if you should notice a problem with your device during the warranty period. Please contact our service hotline to make the necessary arrangements (+49 (0)6441 2080 189). Our pick-up service will collect your Leica product at the agreed time from your premises free of charge and transport it to our Customer Care location for evaluation.

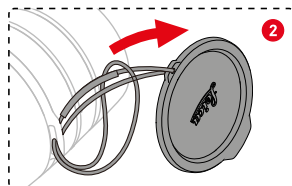
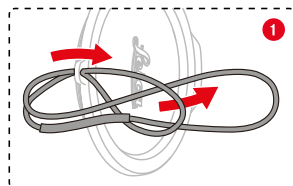
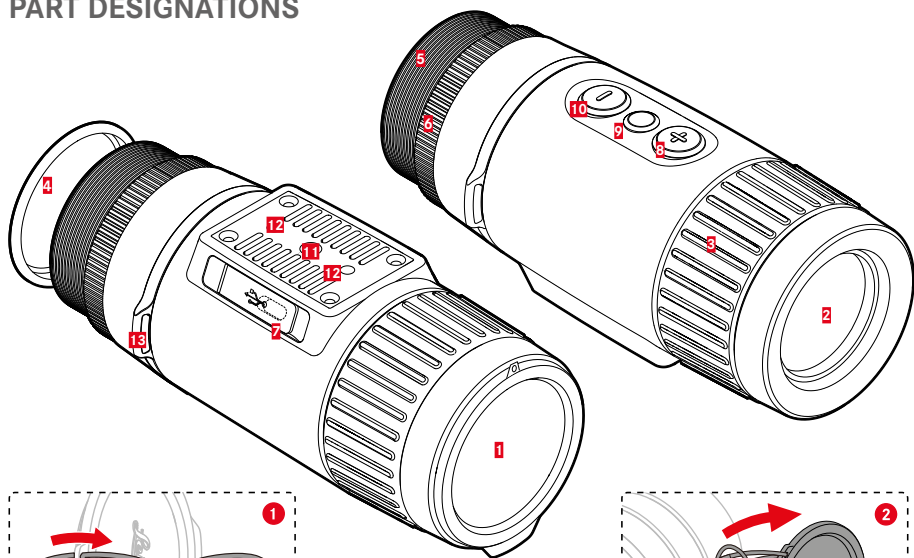
Contact: <https://leica-camera.com/en-int/Contact>

Leica Calonox models come with splash water protection coating (IPX5).

The device was tested under controlled laboratory conditions and is classed as IPX5 in accordance with DIN EN 60529.

Please note: the protection coating is not permanent and will diminish over time. The warranty does not cover liquid damage. Any attempt to open the device by an unauthorized retailer or service partner will result in the immediate expiration of the warranty.

PART DESIGNATIONS



1 Lens cap

- Lens protection
- While carrying out complete calibration

2 Front lens

- Germanium lens
- Heat signatures is forwarded to the sensor

3 Focus ring

- Focusing to the relevant distance

4 Eyepiece cap

5 Thread

- Mounting of the accessory adapter
- Mounting the eyecup (optional accessory)

6 Locking ring

- Securing of the accessory adapter

7 USB interface (USB-C)

- Picture transmission (PAL)
- External power supply

8 [+] button

- On/Off
- Standby mode
- Menu navigation

9 Menu selection button

- Accessing the menus
- Storing of settings

10 [-] button

- Menu navigation
- Calibration

11 Tripod thread

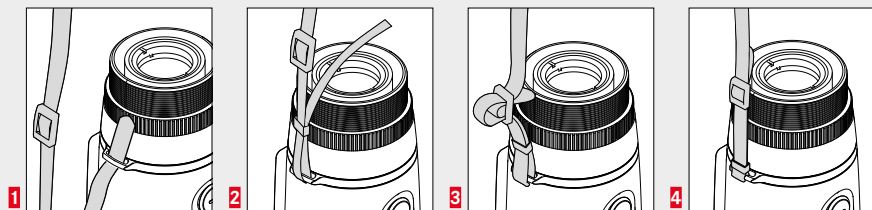
- A 1/4 DIN 4503 (1/4")

12 Tripod thread

- M5 standard thread

13 Strap lugs

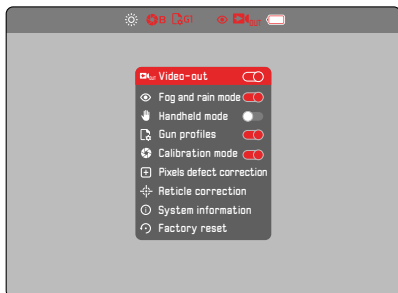
ATTACHING THE CARRY STRAP (optional accessory)



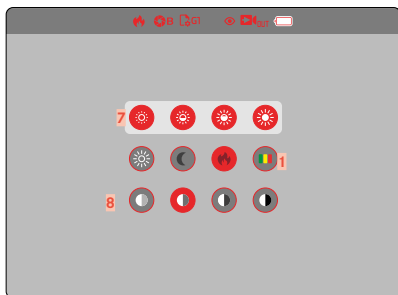
OBSERVATION MODE



LIST MENU



ICONS MENU



1 Color mode

- White Hot (warm appears white)
- Black Hot (warm appears black)
- Red Hot (warm appears red)
- Rainbow (multicolored)

2 Calibration mode

A (Automatic)/B (Background)/M (Manual)

3 User Profiles

4 “Fog and rain” mode

5 Video-out

6 Battery capacity

The battery charge status is displayed in the header line

7 Brightness

4 selectable increments

8 Contrast

4 selectable increments

TECHNICAL DATA

Designation	Leica Calonox Sight SE
Device type	Thermal imaging device
Type No.	1971
Order No.	50504
Scope of delivery	Calonox Sight SE, cordura case, charging cable, quick start guide, lens cleaning cloth, certificate
Sensor type	VOx
Sensor size	384 x 288 pixels
Pixel size	17 µm
Screen type	OLED
Screen diagonal	0.39"
Screen resolution	1024 x 768 pixels
Image repetition frequency	50 Hz
Lens focal length	42 mm
Optical basic magnification	1x
Digital zoom	-
Field of view	8.9 x 6.7° (15.5 m x 11.7 m/100 m)
Diopter compensation	-
Range/Resolution (calculated for image subject 1.7 m x 0.5 m)	
Detection range / Resolution	2000 m/2 pixels
Recognition range / Resolution	700 m/6 pixels
Identification range / Resolution	350 m/12 pixels
Adjustment reticle correction	1.2 cm/50 m, 2.4 cm/100 m
Video output	PAL
Video recording	-
Video/Picture resolution	-
Cable socket	USB-C
Internal memory	-
Protection type	IPX5
Operating temperature	-20°C to +50°C
Operating temperature (charge battery)	+10 to +30°C
Battery life	approx. 8 - 11 h
Accessory thread	M52 x 0.75
Tripod thread	A ¼ DIN 4503 (¼"), M5 standard thread
Material	Composite with rubber armoring
Dimensions (WxH)	165 x 65 mm
Weight (with battery)	685 g