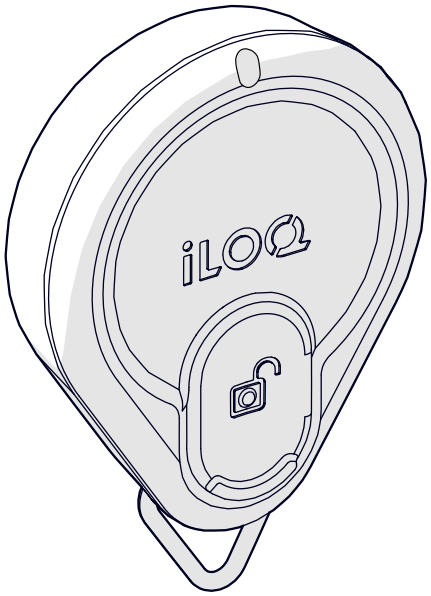
iLOQ 5 Series

K55S.2 Key Fob

User Guide



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iLOQ Oy
support.iloq.com

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1. Safety Information

1.1 Safety signs

Sign	Description
	General notice sign. Indicates particularly important information about the installation and deployment.
	Read these instructions carefully before using products. This information is to ensure your safety and long lifetime of the products.

1.2 Warnings

Sign	Description
	Warning! The K55S.2 Key Fob contains a non-replaceable rechargeable battery. Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.
	Warning! Leaving a battery in an extremely high temperature environment can result in an explosion or the leakage of flammable liquid or gas.
	Warning! A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

2. Overview

The iLOQ K55S.2 Key Fob is a programmable device for opening doors equipped with iLOQ S50 lock cylinders or iLOQ NFC readers. The K55S.2 is programmed to the customer specific locking system by the administrator using iLOQ Manager software. The K55S.2 is reusable and can be reprogrammed for use in a different system after being reset to the factory settings.

3. Care and Maintenance

- The product is designed to be maintenance-free. It does not require any regular maintenance.
- Do not use the iLOQ K55S.2 Key Fob for other purposes except those mentioned in these instructions.
- Using the K55S.2 for other purposes may damage it.
- The K55S.2 is to be kept secure so that only an authorized person can use it.
- In case of losing the K55S.2, contact the administrator of the locking system. Blocklisting of the lost K55S.2 is done with the iLOQ Manager software. The affected locks are then reprogrammed.
- Maximum temperature range for use: -20 - +55C
- Maximum temperature range for charging: 0 - +40C
- Ingress protection rating: IP67. Keep the K55S.2 clean and dry. If the K55S.2 is wet or dirty, use a soft cloth for drying and cleaning.
- For more detailed technical information, see the K55S.2 datasheet.
- The K55S.2 is an electronic product including a Lithium Ion rechargeable battery. Appropriate recycling as WEEE waste must be followed.



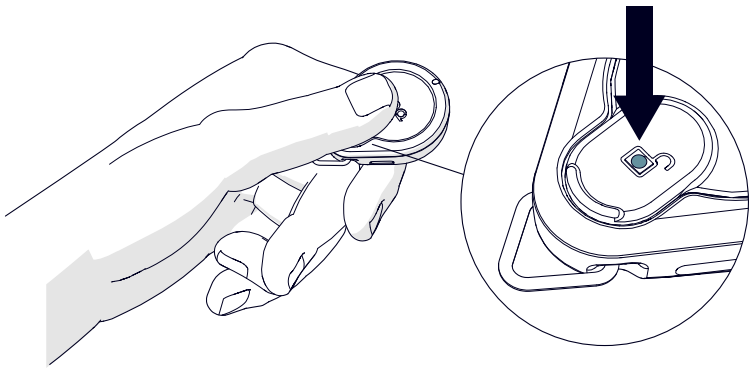
- For customer claims, technical support etc, please contact your administrator. Your administrator will contact the appropriate iLOQ partner for support.
- Recharge the K55S.2 if operation is abnormal. During charging, the K55S.2 restarts itself. If abnormal operation continues, contact the locking system administrator.
- The K55S.2 can be updated by the user via iLOQ Online connected NFC readers and the iLOQ S50 Phone Key Application.

4. Before the first use

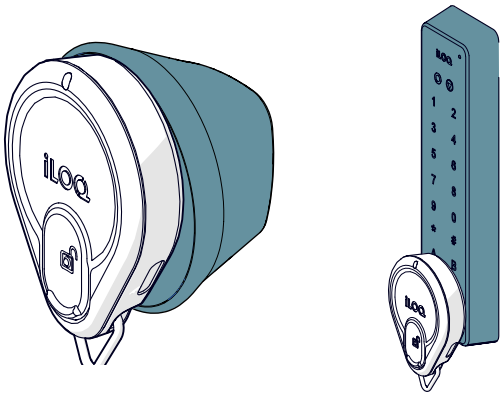
Charge the iLOQ K55S.2 Key Fob before the first use to make sure that it operates correctly.

5. Operating instructions for the iLOQ K55S.2 Key Fob

1. Press and release the button on the iLOQ K55S.2 Key Fob to activate it.
   The LED will blink amber.

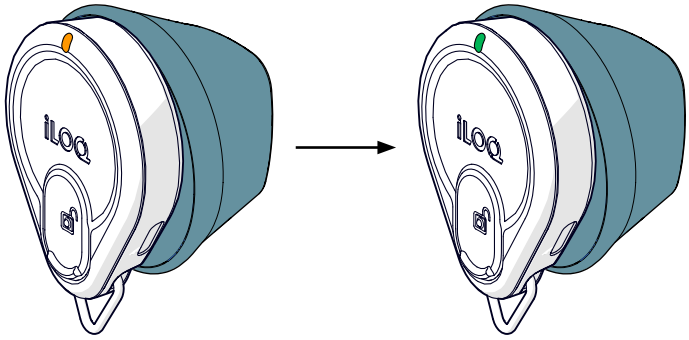


2. Within 5 seconds of pressing the button, touch the iLOQ Reader Knob or iLOQ NFC Reader with the bottom of the K55S.2 to activate the lock.

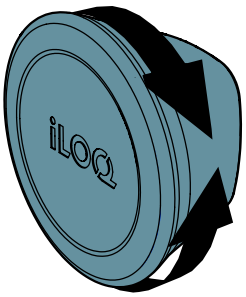


NOTE! If access is denied, the K55S.2 or the iLOQ NFC reader will show a red light. Check your access rights with the locking system administrator.

3. Wait until the K55S.2 shows a green light to indicate that access is granted.
   The K55S.2 shows an amber light while scanning the iLOQ NFC reader and shows a purple light when communicating with the iLOQ NFC reader.



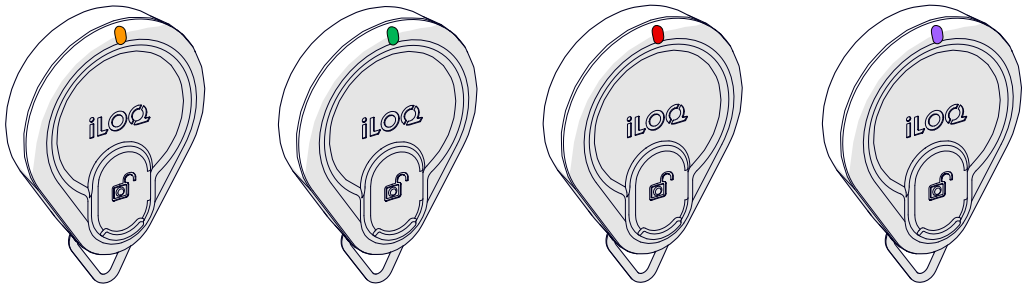
4. Turn the iLOQ Reader Knob to operate the lock (open or close).



NOTE! After 5 seconds (default), the cylinder will automatically be locked. When the cylinder is locked, the iLOQ Reader Knob cannot be rotated.

NOTE! When locking a door, try to rotate the iLOQ Reader Knob clockwise and counterclockwise to make sure that the knob is in the locked position and the door remains closed.

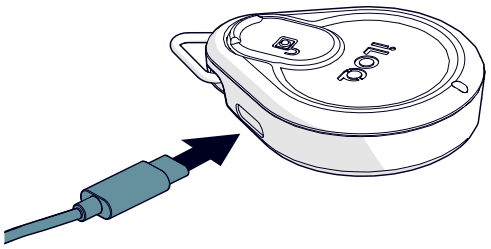
5.1 LED functions of the iLOQ K55S.2 Key Fob



Light indicators	Description
• Purple light while programming	• Key Fob is communicating with programmer
• Amber light when opening the door	• Key Fob is communicating with lock
• Green light after amber	• Access granted. Lock can be opened or closed
• Red light after amber	• Access denied
• Amber and red light blink in turn after activating the Key Fob	• Battery level low, charge battery
• Red light blinks twice after activating the Key Fob	• Key Fob is missing valid time, see section 5.5
• Red light blinks three times after activating the Key Fob	• Battery empty, charge battery
• Amber light blinks	• Key Fob is scanning the iLOQ NFC reader
• Purple light when near an iLOQ NFC reader	• Key Fob is communicating with the iLOQ NFC reader
• Green light after purple light when near an iLOQ NFC reader	• Access granted

5.2 Charging the iLOQ K55S.2 Key Fob

To charge the iLOQ K55S.2 Key Fob, use the USB-C ® charger with USB-C ® cable.



5.3 Battery charging specifications

Unit	Value
• Voltage	• 5 V
• Current	• 100 mA
• Charging time	• 3 hours
• Capacity	• 220 mAh. Full battery has nominal capacity for 5000 lock openings at room temperature.

Light indicator	Meaning
• Blinking green light	• Battery charging
• Solid green light	• Battery fully charged

5.4 Programming the iLOQ K55S.2 Key Fob

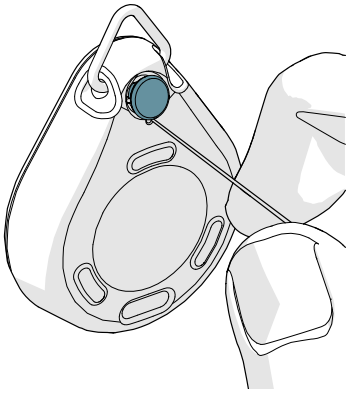
The iLOQ K55S.2 Key Fob can be programmed by the locking system administrators.
Contact the administrators if you need to have your access rights changed. Contact the administrators if you lose your K55S.2. This is important so that administrators can block list the lost K55S.2 to prevent unauthorized access with the lost Key Fob.

5.5 Updating the iLOQ K55S.2 Key Fob

The iLOQ K55S.2 Key fob is automatically updated by the iLOQ online connected iLOQ NFC readers when opening doors. The K55S.2 can be updated with the iLOQ S50 Phone key application by holding an activated K55S.2 to the phone's NFC antenna while the iLOQ S50 Phone key application is active. The K55S.2 can also be updated by locking system administrators.

5.6 AK50.10-AK50.19 Color Markers

The AK50.10-AK50.19 Color Markers can be used to personalize the iLOQ K55S.2 Key Fobs. To replace the Color Marker, remove the old one with a suitable tool and replace it with a new one.



6. Disposal of Decommissioned Products

If a product is defective, replace it with a new one using the installation instructions. If you are not sure how to replace or discard a certain product, contact the device manufacturer. Contact information can be found at support.iloq.com.

	Never discard an electrical appliance in household waste. Follow local laws and regulations for safe and environmentally friendly product disposal.
	Before discarding products, bear in mind that most iLOQ products are reusable. All programmable products can be reset to factory settings, after which they can be reused in another system.

Recycling instructions of decommissioned products are depicted below.

Decommissioned product	Sorting
Decommissioned iLOQ fittings, mounting accessories and thumb turn knobs can be recycled as scrap metal.	
Decommissioned iLOQ products containing electronics and circuit boards, such as iLOQ Lock Cylinders, keys, net bridges, door modules, key and NFC readers, and relay cards, must be recycled at an electrical and electronic equipment collection point.	
iLOQ products containing batteries and accumulators, such as key fobs, programming keys and clock circuits, should be recycled at a regional collection point for batteries and small accumulators.	
Most iLOQ packaging materials are suitable for cardboard and plastic recycling.	

7. Compliance

The products mentioned in this user guide are in conformity with the requirements of the directives declared on this page.

CE

SIMPLIFIED EU DECLARATION OF CONFORMITY:
Hereby, iLOQ Oy declares that the radio equipment type K55S.2 Key Fobs are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.iloq.com/en/declaration-of-compliance/

Communication standard: NFC 13,56 MHz Load modulation (ASK) ISO/IEC 14443A.

ISED

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s) and complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications made to this equipment not expressly approved by iLOQ Oy may void the FCC authorization to operate this equipment.

This device complies with the RF exposure limits and has been evaluated in compliance with portable exposure conditions at 0 cm use distance.

USBIF

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Battery

Contains battery 452025PN2, imported to EU by iLOQ Oy.
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FI-90590 Oulu
www.iLOQ.com



Manufacturer of battery
Chongqing VDL Electronics Co., Ltd.
Buiiiding 1-4, Puli Industrial New Area, Zhaojia Street, Kaizhou District
Chongqing, China
Phone: 023-52862502
Email: customers@gdvdl.com
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Australia and New Zealand

R-NZ

Singapore

Complies with IMDA Standards DA105282

iLOQ 5 Series

K55S.2 Key Fob

User Guide

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