

# LINKA

Lock Smarter Not Harder

Smart Bike Lock

Owner's Manual

*LK-A100/LK-B100/LK-C100*



# Table of Contents

- Getting Started
- Important Safety and Product Information
  - Battery Warnings
  - Declaration of Conformity
  - FCC Compliance
  - Industry Canada Compliance
- Limited Warranty
  - Warranty Policy
- Welcome
  - Introducing the LINKA Smart Wheel Bike Lock
  - Installing your LINKA
    - Install using mounting screws
    - Installing using tie-down straps
- Turning on your device
  - LED Legend
- Pairing your device
  - Logging in
    - Sign up
    - Sign in with Facebook
    - Sign in
  - Enable Bluetooth on your phone
  - Select your device from list
  - Setup your phone-less access code
- Locking your device
- Unlocking your device
  - Unlock in App
  - Unlock by button on LINKA
  - Auto-unlock feature
- Access your device via Phone-less Access Code
- See Activity (In App)
- Location Service (In App)
- Bike Profile (In App)
  - Add Photo:
  - Edit fields:
- Settings (In App)
  - Phone-less Access Code
  - Edit Lock Name
  - Audible Locking/Unlocking
  - Tamper Siren
  - Auto-Unlocking

Manage Devices (In App)

Notifications (In App)

- Out of Range Alert

- Back in Range Alert

- LINKA Battery Low Alert

- LINKA Battery Critically Low Alert

Charging Your Device

Sharing Your Device

Device Information

Accessories

- Add-on Chain

Troubleshooting & Support

- Resetting the device

- Factory Reset

- Updating Software

Software License Agreement

See the Important Safety and Product Information guide in the product box for product warnings and other important information.

## Getting Started

When using your LINKA device for the first time, you should complete these tasks to set up the device and get familiar with the basic features.

### 1. Important Safety and Product Information

- a. Please read this owner's guide
- b. Please take the time to follow the instructions in the owner's guide carefully. It will help you get the most out of the features your new LINKA product has to offer. Save the owner's guide for future reference.

#### c. Battery Warnings

- i. If these guidelines are not followed, the internal lithium-ion battery may experience a shortened lifespan, a risk of damage to operability of the device, fire, chemical burn, electrolyte leak, and/or injury.
  - 1. Do not puncture or incinerate the device or battery.
  - 2. When storing the device for an extended time, store within the following temperature range: from 32 F to 77 F (from 0 C to 25 C)
  - 3. Do not operate the device outside of -4 F to 131 F (from -20 C to 55 C).
  - 4. Contact your local waste disposal department to dispose of the device/battery in accordance with applicable local laws and regulations.
- ii. Non-User replaceable Battery Warning: Do not remove or attempt to remove the non-user-replaceable battery.

#### d. Declaration of Conformity

- i. Hereby, LINKA declares that this product is in compliance with the essential requirements and other relevant provisions. To view the full Declaration of Conformity, see the LINKA website:  
[www.linkalock.com/compliance](http://www.linkalock.com/compliance).

#### e. FCC Compliance

- i. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions (1) this device may not cause harmful

- interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- ii. 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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 of the following measures:
    - 1. Reorient or relocate the receiving antenna.
    - 2. Increase the separation between the equipment and the receiver.
    - 3. Connect the equipment to an outlet on a different circuit than the one to which the receiver is connected.
    - 4. Consult the dealer or an experienced radio/TV technician for help.
  - iii. This product does not contain any user-serviceable parts. Repairs should only be performed by an authorized LINKA service center. Unauthorized repairs or modifications could result in permanent damage to the equipment and void your warranty.

## f. Industry Canada Compliance

- i. Category I radiocommunication devices comply with Industry Canada Standard RSS-210. Category II radiocommunication devices comply with Industry Canada Standard RSS-310. This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## 2. Limited Warranty

### a. Warranty Policy

- i. LINKA warrants to the original end user customer or purchaser of this Product (“You”) that the product is free from defects in material and workmanship, subject to the conditions stated herein, for the shorter of:

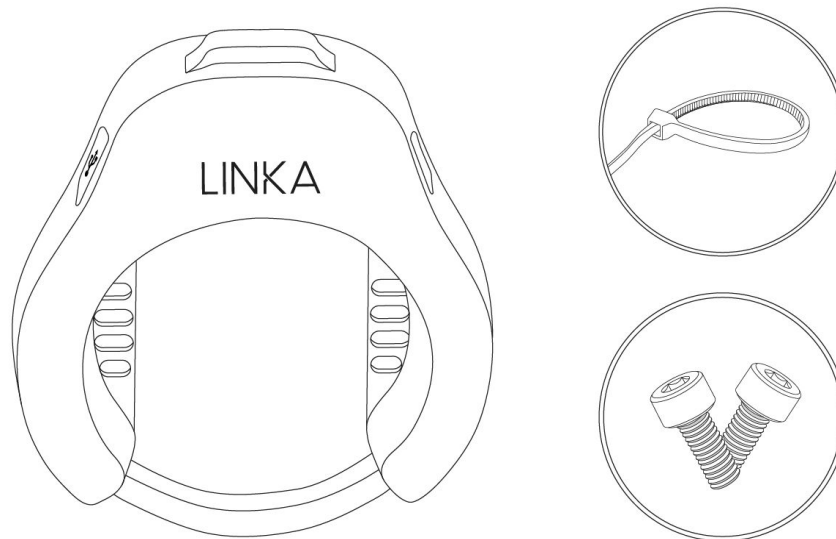
(1) a period from the date of purchase of the product in its original sealed packaging until the expiration date of the Limited Warranty as specified in the Warranty Policy. (Refer to the entire Warranty Policy for details.) (2) If no proof of the date of purchase is provided, the warranty period will be considered to have started three (3) months after the date that the product was manufactured.)


- ii. Within this period, LINKA will, at its sole discretion, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to:
1. Cosmetic damage, such as scratches, nicks and dents;
  2. Consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship;
  3. Damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes;
  4. Damage caused by service performed by anyone who is not an authorized service provider of LINKA;
  5. Damage to a product that has been modified or altered without the written permission of LINKA;
  6. Damage to a product that has been connected to power and/or data cables that are not supplied by LINKA. In addition, LINKA reserves the right to refuse warranty claims against products or services that are obtained and/or used in contravention of the laws of any country.

## 3. Welcome

### a. Introducing the LINKA Smart Wheel Bike Lock

- i. Thank you for purchasing the Smart Wheel Bike Lock from LINKA. Our innovative technology allows you to secure your bike with no physical keys and an increased peace of mind.



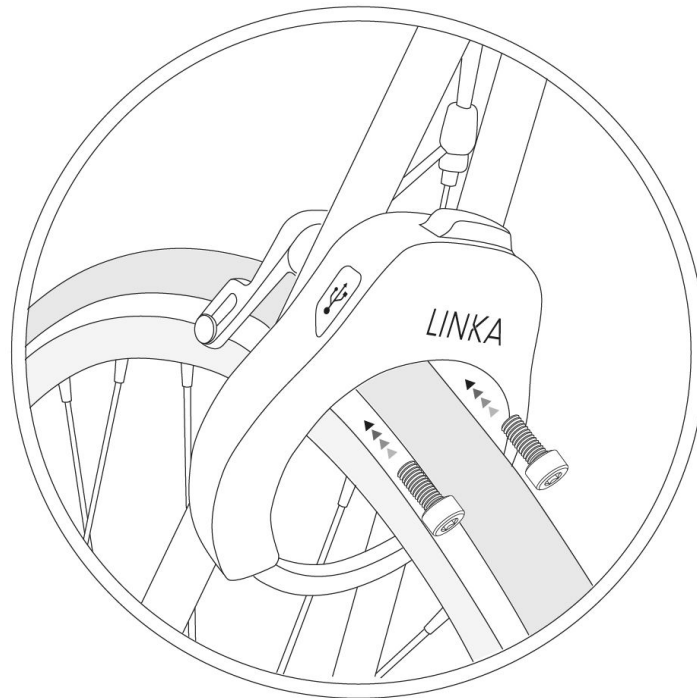
1. LED Indicator dome
2.  button
3. Micro-USB weather cap and charge point
4. Mounting Slots
5. Hardened Steel Shackle
6. Accessories
  - a. micro-USB charge cable
  - b. M5 mounting screws (see Installing your LINKA section 4.b)
  - c. Tie-down straps (see Installing your LINKA section 4.c)

## 4. Installing your LINKA

a. For highest level of security, position your LINKA in the inner rear triangle of the bike

### b. Install using mounting screws

- i. Align the slots in the inner ring of LINKA with the mounting studs on your bike seat stay
- ii. Attach LINKA to your bike using the two provided M5 mounting bolts.




### c. Installing using tie-down straps

- i. Align the slots in the inner ring of LINKA with the seat stays on your bike.
- ii. Push tie down strap through desired slot and around the seat stay
- iii. Bring the open end of the tie down strap back through to the worm screw opening
- iv. Tighten screw until there is little wiggle room left.
- v. Repeat step ii.-iv. on remaining seat stay.
- vi. Tighten down both screws until LINKA is secured tightly onto your bike.




## 5. Turning on your device


- a. Tap 
- b. LED dome will begin blinking blue identifying that your device is now in discoverable mode. You will also hear an audible start up tone.

NOTE: LED dome will blink blue (stay in discoverable mode) for 90 seconds before turning your device off to conserve battery power.

### LED Legend



Color	Pattern	Mode	Description	What to do?
Blue	Blinking	Discoverable	When your device is turned on, the LED dome will blink blue for 90 seconds in search of a phone to pair with.	<ol style="list-style-type: none"> <li>1. Pair a new device</li> <li>2. Be in range with a previously connected device</li> </ol>
Green	Blinking	Paired	Paired and connected	<ol style="list-style-type: none"> <li>1. Lock or unlock device</li> <li>2. Adjust your device Settings</li> <li>3. View LINKA status and activity</li> </ol>
Amber	Blinking	Paired	Locking	Allow your device to lock
Red	Blinking	Stall unlocking	If there is any interference with the steel shackle, LINKA will retract the shackle for safety reasons, LED will blink red and you will receive an alert in the LINKA app	Ensure there is no interference when locking and attempt to re-lock
Red	Solid	Phoneless Access Code Entry	When your phone is not present, utilize the personalized phoneless access code to access your LINKA device	After holding the  button for 6 seconds, enter your 4-digit access code
Red	Solid	Charging	Once your battery gets low, plug in the micro-usb charge cable into a computer or a usb-plug charger	Allow your device to charge
Green	Solid	Charged	Your battery is fully charged and ready for more months of peace of mind and riding	Unplug your device from the micro-usb charge connector and get back to riding your bike!
Purple	Solid	Firmware Update	We're learning from your feedback and constantly looking to improve LINKA and your experience	Allow your device to go through the update process. LED will turn to blinking blue when update is successful.

## 6. Pairing your device




- a. Download the LINKA App through Google Play or the Apple Store
- b. Click **LINKA icon** to launch app once downloaded
- c. Logging in
  - i. Sign up
    1. Enter First Name, Last Name, Email and Create a password
    2. Read Terms and Agreement and check box
    3. Click **Create Account**
  - ii. Sign in with Facebook
    1. Click **Facebook sign in** and make sure you're currently logged onto Facebook.
  - iii. Sign in
    1. If you already have an account setup, enter Email and Password
    2. Click **Sign In**.
- d. Enable Bluetooth on your phone
  - i. If you don't have bluetooth enabled on your phone, the LINKA app will introduce a prompt to **Enable**.
  - ii. Once bluetooth is enabled, click **Search for LINKA**.
- e. Power up LINKA
  - i. To enter discovery mode, Tap 
  - ii. LED dome will begin blinking blue identifying that your device is now in discoverable mode. You will also hear an audible start up tone.
- f. Select your device from list
  - i. Click "**LINKA 1**" device from drop down list.
- g. Setup your phone-less access code
  - i. It's highly recommended that you enter and store a 4-digit phone-less access code before continuing further. This is to ensure you don't get locked out if you don't have your phone.
  - ii. Enter your 4-digit access code
    1. *For added security, Codes "1111" up to "9999" and "1234" are not allowed.*
  - iii. Re-enter your 4-digit access code and press **Save**

NOTE: All bluetooth connected settings, actions, alerts, etc. will function and appear only when Bluetooth is enabled on your phone.



## 7. Locking your device

- a. Once your device is paired, you will be able to lock your LINKA device
- b. For safety reasons, you will only be able to lock your device by double-tapping the  button on LINKA and not through the LINKA App.
- c. The LINKA app will show you the status of your device and whether or not it is locked or unlocked.
- d. If there is an obstruction while locking, LINKA will automatically unlock.
  - i. You will receive an alert on your phone to re-lock your device and will hear an audible “check you lock” tone.
  - ii. Ensure there are no obstructions and re-attempt to lock the device by double-tapping the  button on LINKA.
- e. Once Locked, you will hear 3 beeps.

## 8. Unlocking your device

- a. Once your device is paired, you will be able to unlock your LINKA device
- b. There are 3 ways to unlock your device. Unlock in App, Unlock by  button on LINKA, or Auto-unlocking by proximity.
  - i. **Unlock in App**
    1. In the LINKA home page, simply press **Unlock LINKA** and watch your device unlock and change its status in the App.
  - ii. **Unlock by  button on LINKA**
    1. Double-tap the  button on LINKA
  - iii. **Auto-unlock feature**
    1. When Auto-unlocking is activated, your device will be able to recognize as you approach.
    2. Your device will begin unlocking when you're within 3-5 ft (1-1.5 meters) from your bike.
    3. CAUTION: Your device will unlock if this feature is activated.
    4. NOTE: Auto-unlocking requires your lock to be active and awake most of the time increasing battery usage dramatically. To save battery, keep auto-unlocking deactivated.
    5. NOTE: De-activate this feature if your usage characteristics entail being in and out of the bike vicinity often (Recommended). *For more on how to activate/de-activate this feature, see section 10.e on page XX.*

## 9. Access your device via Phone-less Access Code

- a. In some cases, your phone battery may be completely drained or your phone is lost or forgotten. Phone-less Access Code Feature allows you to access your bike and get to your destination without any delays or worries.
- b. Press and hold down the  button on LINKA until the LED dome turns solid Red (6 seconds).
- c. Press the  the number of times of your 1st digit then release until you hear an audible beep sound
- d. Repeat previous step until all 4 digits are entered. Your device will automatically unlock after successfully entering all 4 digits.
- e. If the code is entered incorrectly, you will hear an audible “unsuccessful” tone. You must attempt steps b.-d. Again.
- f. If code is entered incorrectly 4 times, your device will lock out for 1 hour.

## 10. See Activity (In App)

- a. The Activity feature allows you to see the most recent activity that took place on your device.
- b. Once your device is paired, you will be able access this feature by: **clicking on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Activity**
- c. You can see when all the following have occurred.
  - i. Unlocking
  - ii. Locking with location
  - iii. Tamper Alerts
  - iv. Battery Low
  - v. Battery Critically Low

## 11. Location Service (In App)

- a. The Location feature allows you to see the most recent location your bike was parked. A simple click will even give you turn by turn directions!
- b. You will be able access this feature by: **clicking on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Location**
- c. This feature can be accessed whether or not your device is paired to your phone.

## 12. Bike Profile (In App)

- a. Store information about your bike including serial number and photo and match it with your device. This helps when tracking or using multiple bikes. It's also really useful to have if you ever need to report your bike stolen.
- b. You will be able access this feature by: **clicking on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Profile**
- c. Add Photo:
  - i. Click on the **Add Photo** Icon >> Take a Photo OR Pick from Gallery
- d. Edit fields:
  - i. Click **Edit** and change the field values to your choice.
  - ii. Click **Save**


## 13. Settings (In App)

- a. The Settings page allows you to customize specific features on your device.
- b. To access this page, your device must be paired and connected.
- c. To access/change your device Settings: **click on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Settings**
- d. Phone-less Access Code
  - i. **Enter** your personal 4-digit access code
  - ii. **Re-enter** your personal 4-digit access code
  - iii. Click **Save**
  - iv. **NOTE:** Record or store this access code somewhere safe to access your device your phone is not present.
  - v. *For more on how to operate the Phone-less Access Code, see section 6 on page XX.*
- e. Edit Lock Name
  - i. Editing your lock name makes it easier for you to recognize your device for your convenience.
  - ii. **Click** Edit Name
  - iii. **Enter** your desired lock name
- f. Audible Tones
  - i. The Audible Tones feature allows you to turn on/off the notification tones on your device when your device locks or unlocks, connects, etc.
  - ii. **Tap** the slider to toggle between ON and OFF.

## g. Audible Alarm

- i. The Audible Alarm feature allows a siren to sound when the device is being tampered with. In some cases you may not need this feature and can turn the siren feature off.
- ii. **Tap** the slide to toggle between ON and OFF.

## h. Auto-Unlocking

- i. When Auto-unlocking is activated, your device will be able to recognize as you approach and automatically unlock.
- ii. Your device will begin unlocking when you're within 3-5 ft (1-1.5 meters) of your device.
- iii. CAUTION: Your device will unlock if this feature is activated.
- iv. **Tap** the slide to toggle between ON and OFF.
- v. When the Auto-unlock feature is OFF, simply tap the  on your device once and it will unlock.
- vi. NOTE: Auto-unlocking requires your lock to be active and awake most of the time increasing battery usage dramatically. To save battery, keep auto-unlocking deactivated.

# 14. Manage Devices (In App)

- a. Manage Devices allows you to delete a pairing from an existing device or add a new LINKA device.
- b. To access Manage Devices: **click on the App Icon on your phone >> Open Slide Menu >> Manage Devices**
- c. To delete an existing pairing, **click** the [red minus sign](#) for the device you would like to disconnect from your phone.
- d. To add a new device, **click** the [green plus sign](#) and follow the steps in section 3 to complete a new pairing.

# 15. Notifications (In App)

- a. The Notifications section allows you to control all the alerts in your phone related to your connected LINKA device.
- b. To access/change your In App Notifications: **click on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Notifications**
- c. **Out of Range Alert**
  - i. The Out of Range Notification allows you know when your device is out of range from your phone to receive any tamper alerts.

- ii. This notification is intended to keep you in the know about whether or not you will receive a tamper alert.
- iii. **Tap** the slide to toggle between ON and OFF.
- iv. NOTE: When Out of Range Alert is turned OFF, you will not be informed if your bike is danger or being tampered with.

#### d. Back in Range Alert

- i. The Back in Range Notification allows you know when your device back in range with your phone to receive any tamper alerts.
- ii. This notification is intended to keep you in the know about whether or not you will receive a tamper alert.
- iii. **Tap** the slide to toggle between ON and OFF.
- iv. NOTE: When Back in Range Alert is turned OFF, but you are within range, you will receive a tamper alert.

#### e. LINKA Battery Low Alert

- i. The Battery Low Alert allows you to know when it is time to recharge your device.
- ii. **Tap** the slide to toggle between ON and OFF.
- iii. When turned on, you will receive an alert when your device battery reaches 30% or below.
- iv. NOTE: If you are not in range of your device, you will receive a notification the next time you're in range and your battery is 30% charge or below.

#### f. LINKA Battery Critically Low Alert

- i. The Battery Critically Low Alert allows you to know when it is time to recharge your device.
- ii. **Tap** the slide to toggle between ON and OFF.
- iii. When turned on, you will receive an alert when your device battery reaches 10% or below.
- iv. NOTE: If you are not in range of your device, you will receive a notification the next time you're in range and your battery is 10% charge or below.
- v. WARNING: Once the device battery reaches 10% or less, your device will no longer lock! This is a security and convenience feature to prevent you from being stranded with a completely discharged battery.

## 16. Charging Your LINKA device

NOTICE: To prevent corrosion, thoroughly dry the micro-USB port, the weather cap and the surrounding area before charging.

The LINKA device is powered by a built-in lithium-ion battery that you can charge using a standard wall outlet, a USB port on your computer or a portable battery pack.

NOTE: The device will not charge when outside the temperature range of 32° to 112°F (0° to 45°C)

The device will only charge if device is unlocked.

- a. **Pull up** the weather cap (1) from the micro-USB port (2)



- b. **Plug** the small end of the USB cable into the micro-USB port.
- c. **Plug** the USB end of the cable into your computer, wall outlet-connected AC adaptor or portable battery pack.
- d. When your device is fully charged, the LED dome indicator will be green.

## 17. Sharing your LINKA device

- a. Sharing your LINKA is very easy and can be done remotely.
- b. Sharing when device is locked or unlocked
  - i. Follow section 5 through section 6-F
  - ii. Once the User phone is connected, a permission request will be sent by e-mail to the admin (first user to connect to a new LINKA device).



- iii. Once the admin approves the request, user will instantly receive access to the LINKA device.
  - iv. NOTE: Users with shared access to a LINKA device (except admins) will not be able to change any of the existing settings on the LINKA device.
- c. Revoking Permissions
- i. An admin can choose to revoke keys to users at any time and prevent access to the LINKA device if necessary.
  - ii. To revoke permissions: **click on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Select desired LINKA from list >> Settings >> Revoke Access Keys**
  - iii. The main device owner will receive an e-mail to prompt the revocation.

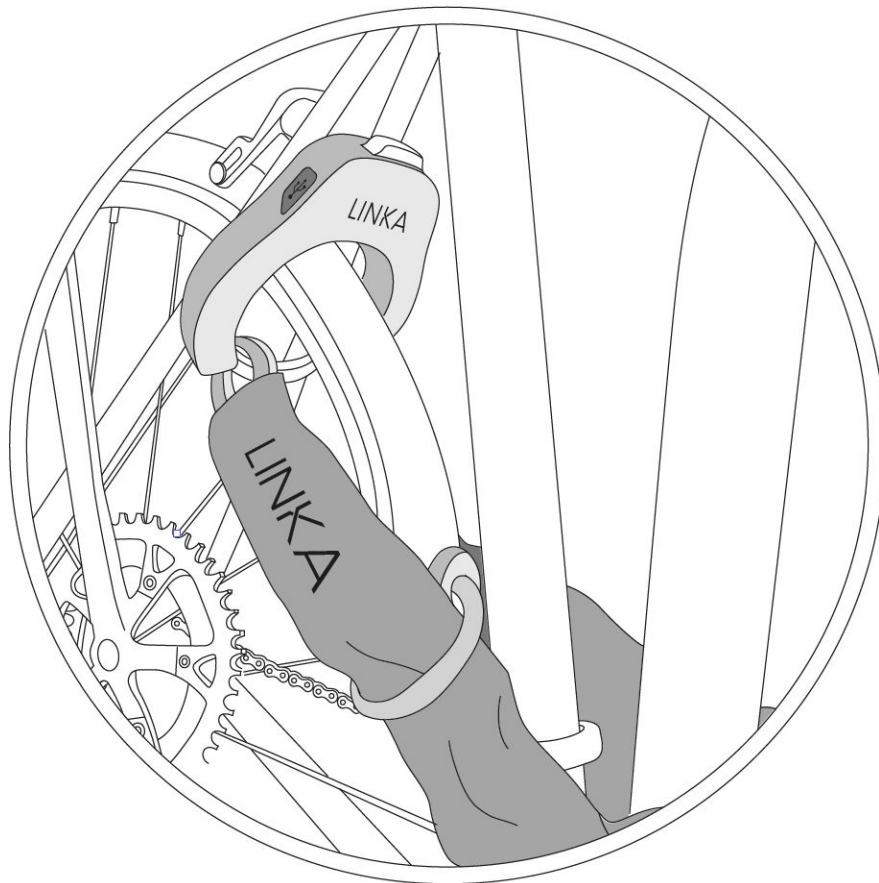
## 18. Device Information

Battery Type	Rechargeable, built-in lithium-ion battery
Battery Life	8-9 months in low power mode 5-6 months in normal mode 1-2 months in auto-unlocking mode
Operating Temperature Range	From -20°C to 55°C (from -4°F to 131°F)
Charging Temperature Range	From 0° to 45°C (from 32°F to 112°F)
Radio Protocol	Bluetooth Low Energy
Water Rating	IEC 60529 IP56

## 19. Accessories


### a. Add-on Chain

- i. For additional security and longer lock ups, use our our heavy-duty add-on noose chain.
- ii. How to use:
  1. Noose the chain around an immovable object and your bike frame
  2. Hook the chain through the locking ring of LINKA (see image).



## 20. Troubleshooting & Support

### a. Resetting the device

- i. If the device stops responding, you may need to reset it. This step will not erase any of your data or settings.
- ii. Hold  down for 10 seconds while paired and connected or unlocked.
- iii. The device resets and turns on.

### b. Factory Reset

- i. If the device is changing ownership or for any reason you'd like to restore original factory settings.
- ii. To Factory Reset: **click on the App Icon on your phone >> Open Slide Menu >> My LINKA >> Select desired LINKA from list >> Settings >> Reset Factory Settings**
- iii. The main device owner will receive an e-mail to prompt the reset.

### c. Updating Software

- i. Your LINKA app will notify you when there are new software and firmware updates available.
- ii. Once your device is paired, the latest firmware stored in the App will update your device wirelessly if there are firmware specific updates available.
- iii. Do not turn off your phone or change any settings on your device during the update process

### d. More Support

- i. For more support and FAQ's, check out our support page at [www.linkalock.com/support](http://www.linkalock.com/support).

## 21. Software License Agreement

- a. By using this device, you agree to be bound by the terms and conditions of the following software license agreement. Please read this agreement carefully.
- b. LINKA grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, owner rights, and intellectual property rights in and to the Software remain in LINKA and/or its third party providers.
- c. You acknowledge that the Software is the property of LINKA and/or its third party providers and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software, for which source code is not provided,

are valuable trade secrets of LINKA and/or its third-party providers and that the Software in source code form remains a valuable trade secret of LINKA and/or its third-party providers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America or the export control laws of any other applicable country.