

## NGTeco U530N

# NGTeco U530N Smart Rim Lock User Manual

Model: U530N

## 1. INTRODUCTION

---

Thank you for choosing the NGTeco U530N Smart Rim Lock. This manual provides essential information for the proper installation, operation, and maintenance of your smart lock. Please read this manual thoroughly before installation and keep it for future reference to ensure optimal performance and security. The U530N is designed for convenience and security, offering multiple access methods including fingerprint, passcode, IC card, NFC, mobile app, and mechanical key. Its built-in Wi-Fi allows for remote management and monitoring.

## 2. PRODUCT OVERVIEW

---

### 2.1 Key Features

- **Multiple Access Methods:** Unlock using fingerprint, passcode, IC card, NFC, mobile app, or mechanical key.
- **Wi-Fi Connectivity:** Built-in Wi-Fi for remote control, temporary code generation, and activity log history.
- **High Capacity:** Stores up to 100 fingerprints, 100 passcodes, and 100 cards.
- **Enhanced Security:** Features a tamper alarm, auto-lock function, and silent motor operation.
- **Easy Installation:** Surface-mounted rim design for quick, no-mortise installation on existing wooden swing doors.
- **Adjustable Design:** Adjustable backset (50, 60, or 70 mm) to fit various door configurations.
- **Power Options:** Powered by four AA batteries with up to 12 months battery life and a USB-C port for emergency power.
- **Wide Operating Range:** Functions effectively in temperatures from -20°C to 55°C with humidity up to 90%.

### 2.2 Package Contents

Verify that all components are present in the package:

- Exterior assembly

- Interior assembly
- Latch kit
- Mechanical key (x2)
- IC cards (x2)
- Screw kit
- Installation template
- Installation guide
- User manual (this document)

## 2.3 Product Diagram





**Figure 1:** Exterior Assembly. This image shows the front panel of the NGTeco U530N Smart Rim Lock, featuring the numeric keypad, IC card reader symbol, bell icon, fingerprint sensor, and the illuminated ring at the bottom indicating status.



**Figure 2:** Interior Assembly. This image displays the internal unit of the NGTeco U530N Smart Rim Lock, including the thumb-turn knob for manual locking/unlocking, the battery compartment cover, and the latch mechanism.

### 3. SETUP

---

#### 3.1 Door Compatibility

The NGTeco U530N Smart Rim Lock is designed for wooden swing doors with a thickness ranging from 25 mm to 50 mm. The backset is adjustable to 50 mm, 60 mm, or 70 mm to accommodate various door types.

## 3.2 Installation Guide

Refer to the separate *Installation Guide* included in your package for detailed, step-by-step instructions. The surface-mounted design simplifies installation, typically requiring no complex drilling or mortise work. Ensure you follow all safety precautions and use the provided screw kit and installation template.

## 3.3 App Setup and Wi-Fi Connection

1. Download the NGTeco Home app from your smartphone's app store (iOS or Android).
2. Create an account and log in.
3. Follow the in-app instructions to add your U530N Smart Rim Lock. This typically involves putting the lock into pairing mode and connecting it to your home Wi-Fi network.
4. Once connected, you can manage users, generate temporary passcodes, view activity logs, and receive alerts remotely.

# 4. OPERATING INSTRUCTIONS

---

## 4.1 Unlocking Methods

- **Fingerprint:** Place your registered finger on the fingerprint sensor. The lock will unlock if the fingerprint is recognized.
- **Passcode:** Enter your registered passcode on the keypad, then press the '#' key.
- **IC Card/NFC:** Present your registered IC card or NFC-enabled device to the card reader area on the exterior assembly.
- **Mobile App:** Use the NGTeco Home app to remotely unlock the door.
- **Mechanical Key:** Insert the mechanical key into the emergency keyhole and turn to unlock. This method is for emergency use or when batteries are depleted.

## 4.2 Locking Methods

- **Auto-Lock:** The lock will automatically secure the door after a preset time once it is closed. This feature can be configured via the mobile app.
- **Manual Lock:** From the interior, turn the thumb-turn knob to manually lock the door.

## 4.3 Remote Control and Monitoring

Through the NGTeco Home app, you can:

- Generate and manage temporary passcodes for guests or service providers.
- View a detailed log of all unlock activities for the past six months.
- Receive real-time alerts for events such as tamper attempts or low battery warnings.
- Remotely lock or unlock the door.

# 5. MAINTENANCE

---

## 5.1 Battery Replacement

The U530N lock is powered by four AA batteries, providing approximately 12 months of operation. A low-battery warning will be issued through the app and potentially via an indicator on the lock itself. Replace all four batteries simultaneously with new, high-quality alkaline AA batteries. In case of complete battery

depletion, use the USB-C port for emergency power or the mechanical key to access the lock.

## 5.2 Cleaning

Clean the lock's exterior surfaces with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and electronic components. Ensure the fingerprint sensor and keypad are kept clean for optimal performance.

## 6. TROUBLESHOOTING

---

- **Lock not responding:** Check battery levels. If low, replace batteries or use emergency USB-C power. Ensure the lock is properly installed and all connections are secure.
- **Fingerprint not recognized:** Ensure your finger is clean and dry. Re-register your fingerprint if issues persist.
- **Passcode not working:** Verify the passcode is correct. Ensure the keypad is clean.
- **Tamper alarm sounding:** The alarm activates if someone attempts to force or remove the lock. Check for physical damage or tampering. The alarm can typically be silenced via the app or by unlocking with a valid credential.
- **Wi-Fi connectivity issues:** Ensure your home Wi-Fi network is active and the lock is within range. Restart your router and the lock if necessary. Re-pair the lock with the app if connection is lost.
- **Auto-lock not engaging:** Verify the auto-lock setting is enabled and configured correctly in the NGTeco Home app. Ensure the door closes completely.

## 7. TECHNICAL SPECIFICATIONS

---

Feature	Specification
Model Name	Smart Rim Lock (U530N)
Dimensions (L x W x H)	7.2 x 7.2 x 17.9 cm
Weight	1.8 kg
Colour	Black
Power Supply	4 x AA Batteries
Emergency Power	USB-C Port
Battery Life	Up to 12 months
Access Methods	Fingerprint, Passcode, IC Card, NFC, App, Mechanical Key
User Capacity	100 Fingerprints, 100 Passcodes, 100 Cards
Connectivity	Wi-Fi
Door Thickness	25 - 50 mm
Adjustable Backset	50, 60, or 70 mm
Operating Temperature	-20°C to 55°C

Operating Humidity	Up to 90%
Certifications	CE Certified

## 8. WARRANTY AND SUPPORT

---

NGTeco products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official NGTeco website. Please retain your proof of purchase for warranty claims.

For further assistance, you may contact NGTeco customer support through the contact information provided on their official website or within the NGTeco Home app.