

MANUAL OF SMART LOCK



NUCTECH COMPANY LIMITED

In order to meet the requirements of various logistics companies for monitoring the transportation process of goods, guarantee the safety of goods, improve the logistics timeliness and reducing the management cost, the intelligent hardware solution product - **Smart Lock** is proposed. This product is a mobile smart terminal device integrating satellite positioning, 2/3G wireless communication, RFID, (Wi-Fi), NFC and other Internet of Things technologies. The **Smart Lock** can be used for real-time positioning of containers or vans, real-time monitoring of transportation goods, and real-time alarm of all kinds of abnormal information. It realizes omni-directional effective supervision of goods transportation process.



SL3130



SL3230



SL3000(HR)

1. Initialize the Smart Lock (SL3130 for Reference)

Install SIM Card

Step 1 Use a screwdriver to open the SIM card cover.



Step 2 Hold the Micro SIM card "notch" side down and the chip facing to the lock body then insert into the bottom of the card slot.

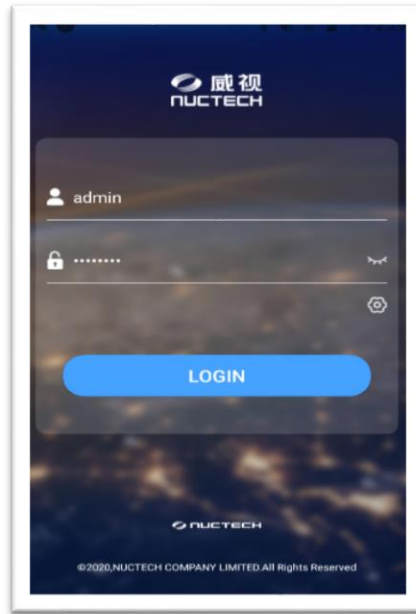


Step 3 Use a screwdriver to fix the SIM card cover.

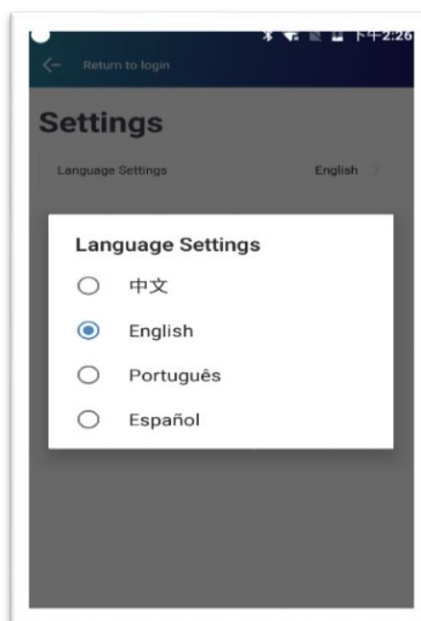


Configure the Smart Lock parameters (the Smart Lock needs to be configured for the first use, and no need to configure again in the future)

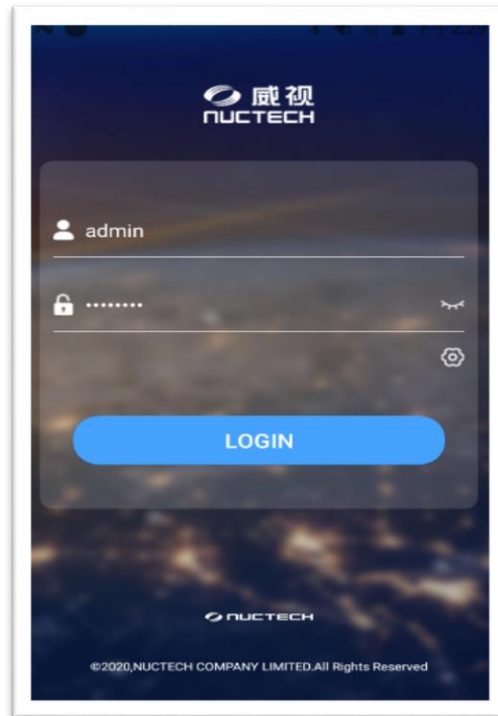
Step 1 Open the "Nuctech Lock" software in the handheld reader.



Step 2 Select a Language



Step 3 Enter "User Name" and "Password" (Default User Name: admin, Password: Abc123!!)



Step 4 Close the lock lever of the **Smart Lock** to make the lock in a non-sleep mode



Sleep Mode
(Indicator Lights Do not flash)

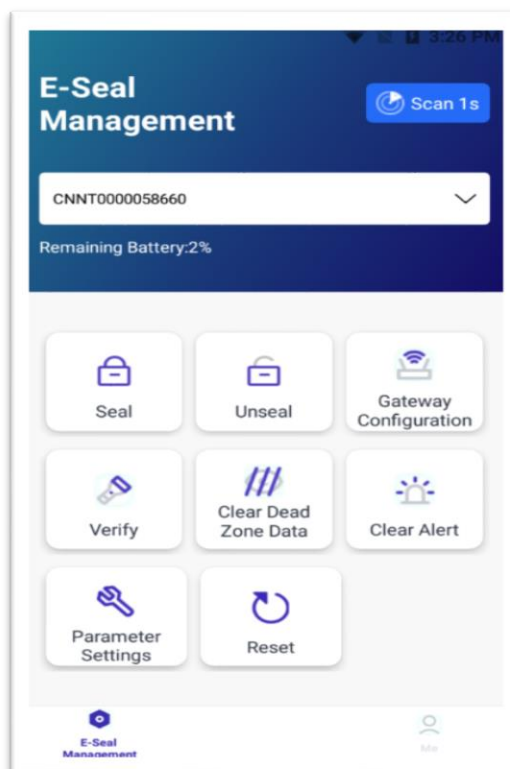


Non-sleep Mode
(Indicator Lights flash)

Step 5 Place the handheld reader close to the **Smart Lock**

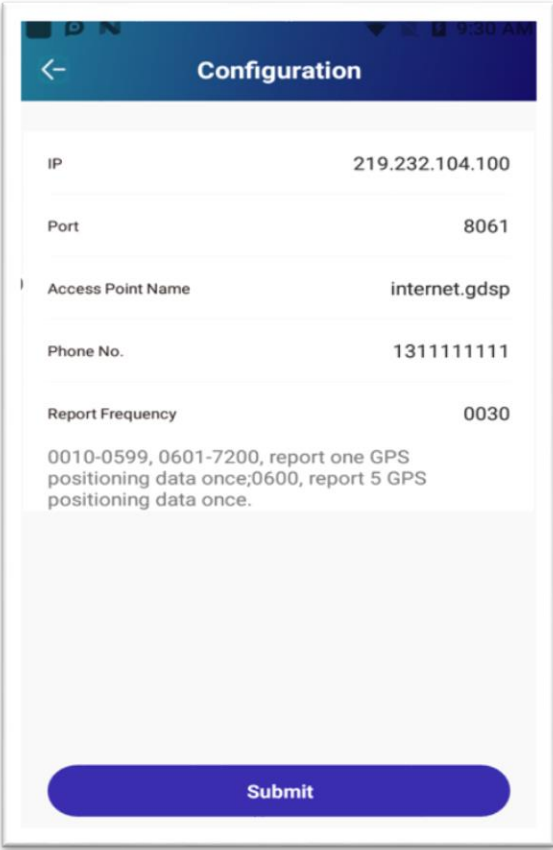


Step 6 Wait for the lock number appearing on the handheld reader.



Step 7 Click "Gateway Configuration"

- >Configure the address of the server in "IP"
- >Configure port parameters in "Port"
- >Configure access point name in "Access Point Name (APN)"
- >Fill in the phone number as required in "Phone No."
- >Fill in the data reporting interval as needed in "Report Frequency" (unit: second)



The screenshot shows a mobile application interface titled "Configuration". It contains several input fields with pre-filled values: IP (219.232.104.100), Port (8061), Access Point Name (internet.gdsp), Phone No. (1311111111), and Report Frequency (0030). Below these fields is a text block explaining the Report Frequency: "0010-0599, 0601-7200, report one GPS positioning data once; 0600, report 5 GPS positioning data once." At the bottom of the screen is a blue "Submit" button.

Field	Value
IP	219.232.104.100
Port	8061
Access Point Name	internet.gdsp
Phone No.	1311111111
Report Frequency	0030

0010-0599, 0601-7200, report one GPS positioning data once; 0600, report 5 GPS positioning data once.

Submit

2. Smart Lock Operation

Start In-transit Monitoring

Step 1 : Padlock

Hang the **Smart Lock** lever on the rear door of the container, the installation position is in one of the following two red circles.



Note: It is OK either of the two positions.

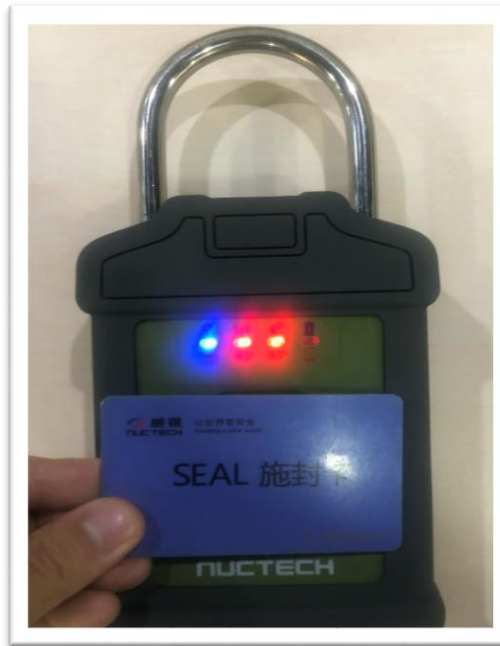
Step 2 : Press the lock lever

>Press the lock lever and make sure it is locked (For SL3230 **Smart Lock**, the side switch of the lock body needs to be pressed before inserting the lock lever into the lock hole)



Step 3 : Seal the Smart Lock

- >Place the "Seal Card" close to the middle of the front side of the lock;
- >The sealing is successful when the lock status light changes "Blue"

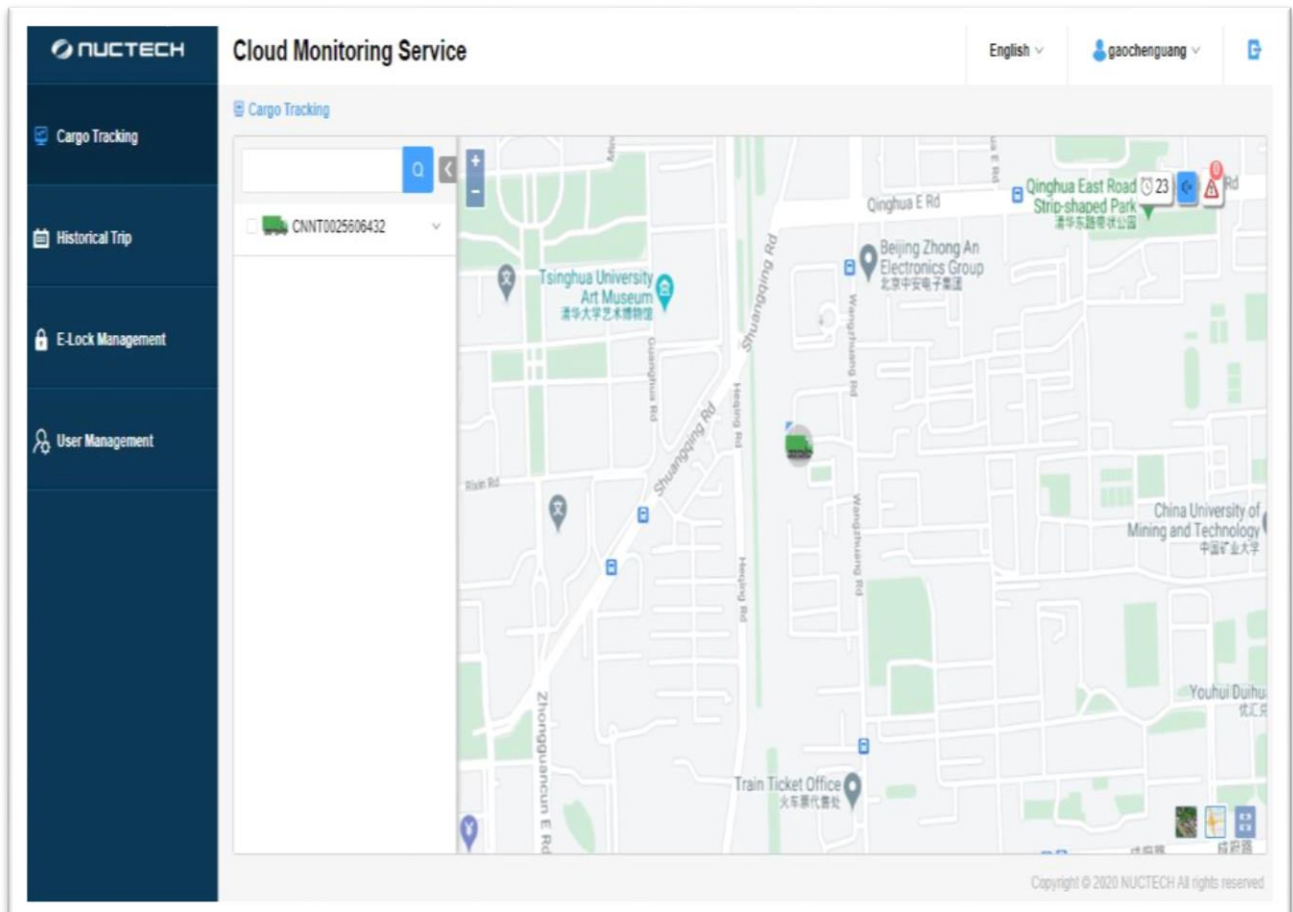


Notice:

When locking, the lock lever must be fully inserted into the lock hole.

Lock first, then seal.

Step 4 : After the **Smart Lock** communicating with the platform, the supervised **Smart Lock** information is displayed on the platform.



End In-transit Monitoring

Step 1 : Unseal the **Smart Lock**

- >Place the "**Unseal Card**" close to the middle of the front side of the lock
- >The unsealing is successful when the lock status light changes "**Red**"
- >Press the side switch of the lock body to pull out the lock lever

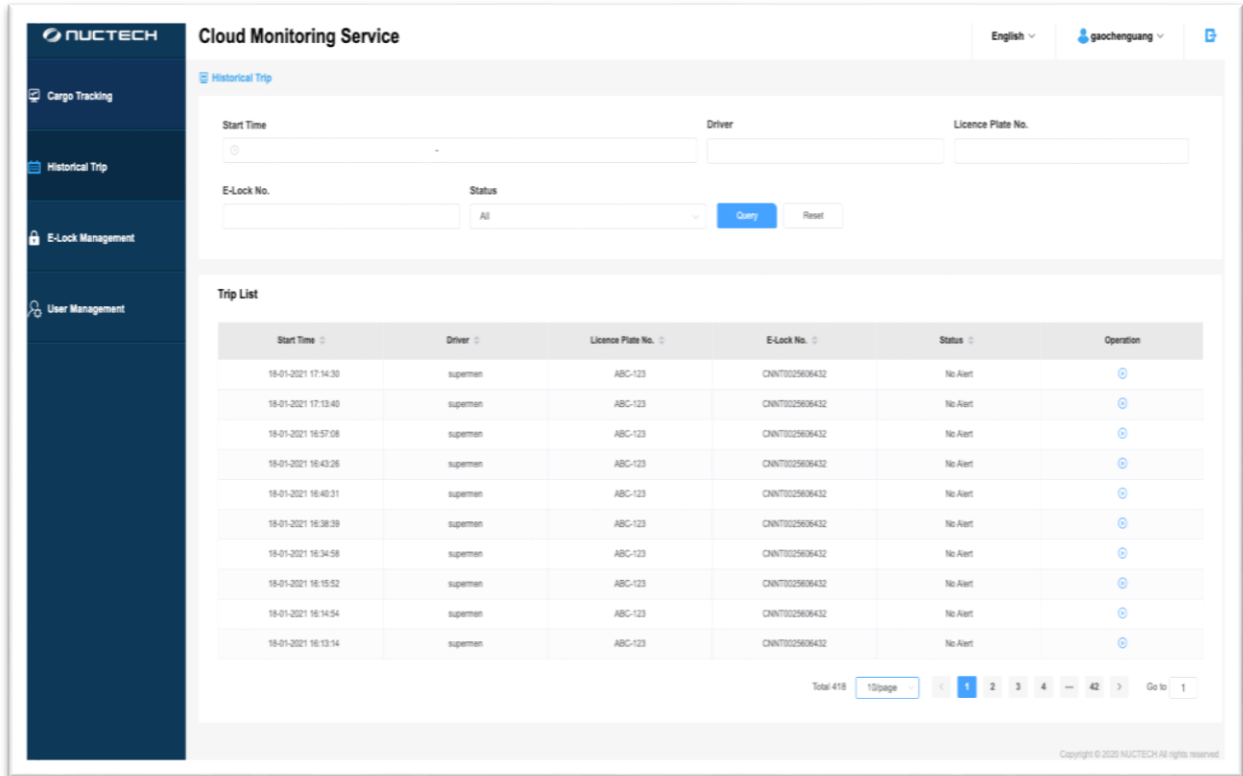


Notice:

When removing the lock, you must unseal it first, and then pull out the lock lever.

*The lock lever needs to be pulled out when the **Smart Lock** is free. After a few minutes, the **Smart Lock** goes to a non-working sleep mode.*

Step 2 : In the platform "Historical Trip", the unsealing **Smart Lock** can be displayed.



Cloud Monitoring Service English gaochengguang

Historical Trip

Start Time Driver Licence Plate No.

E-Lock No. Status Query Reset

Trip List

Start Time	Driver	Licence Plate No.	E-Lock No.	Status	Operation
18-01-2021 17:14:30	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 17:13:40	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:57:08	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:43:26	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:40:31	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:38:39	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:34:58	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:15:52	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:14:54	superman	ABC-123	CNN7025606432	No Alert	
18-01-2021 16:13:14	superman	ABC-123	CNN7025606432	No Alert	

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Release the alarm of Smart Lock

In the supervision process, after the lock body of the **Smart Lock** is illegally opened or the lock lever is illegally cut, all the indicators will flash red at the same time and alarm. The **Smart Lock** can be unsealed only after the alarm is released.

Step 1 : Release the alarm of the **Smart Lock**

- >Place the "**Release Alarm Card**" close to the middle of the front side of the lock
- >The alarm release is successful when the "**Red**" light flashes
- >Use "**Unseal Card**" to unseal the **Smart Lock**



Smart Lock Indicator Light Description



			
Seal / Unseal Status	Communication Status	Satellite Signal Status	Battery Status
Light Status	Indicator	Status	
	Red Light Flash	Unseal Status	
	Blue Light Flash	Seal Status	
	White Light On	Verification Status	
	Red Light Flash	GPS Lost	
	Blue Light Flash	GPS Connected	
	Light Off	Sleep Mode	
	Red Light Flash	GPRS Lost	
	Blue Light Flash	GPRS Connected	
	Green Light On	E-Lock Activation	
	Light Off	Sleep Mode	
	Red Light On	Low Battery	
	Blue Light On	Charging Complete	
	Red Light Flash	Need to Charge	
	Blue Light Flash	Normal Status	
	Lights All Off	E-Lock Sleep Mode	
	All Lights Flash Red	Abnormal Alarm	