

Lifud SmartSet Software User Manual

V1.0.0

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1. Introduction

1.1 Software introduction

The Lifud SmartSet software is mainly used to configure the parameters of Lifud LED driver, which needs to match the NFC programmer and Lifud programmer. The list of hardware equipment is as follows:

Product	Name	Brand	Model
	NFC desktop programmer	FEIG	ID CPR30+
	NFC handheld programmer	FEIG	ID ISC.PRH101-USB
	NFC batch programmer	FEIG	ID ISC.LRM1002-E ID ISC.ANT300/300-A
	Lifud programmer	Lifud	LF-SCS080C

1.2 Programmable drivers

LED drivers programmed by NFC programmer and Lifud programmer, including high-power LED drivers and intelligent power.

1.3 Target readers

Companies or individuals using Lifud LED drivers and having some basic knowledge of computer.

1.4 System requirements

- Operating system: Windows 7 and above, 64/32-bit operating system.
- Memory: 512M and above.
- Runtime environment: . NET Framework4.6.1 is required at least. If installation environment is required during the installation process, please open the following link to download and install it.

<https://dotnet.microsoft.com/en-us/download/dotnet/6.0>

2. Installation guide

2.1 Download the installation package

Through our website <https://www.lifud.com/Download/1725350718193094656.html>, download the installation package or contact our sales staff to get the installation package.

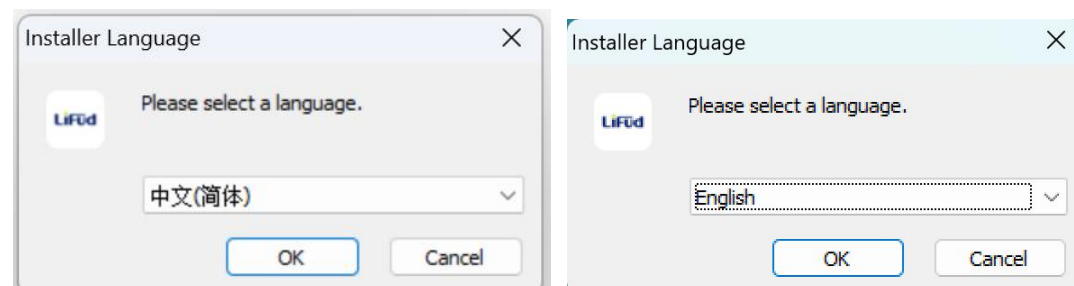
The following figure shows the installation package:

名称	修改日期	类型	大小
LF-SmartSet1.0.0.exe	2024/9/20 11:18	应用程序	17,805 KB

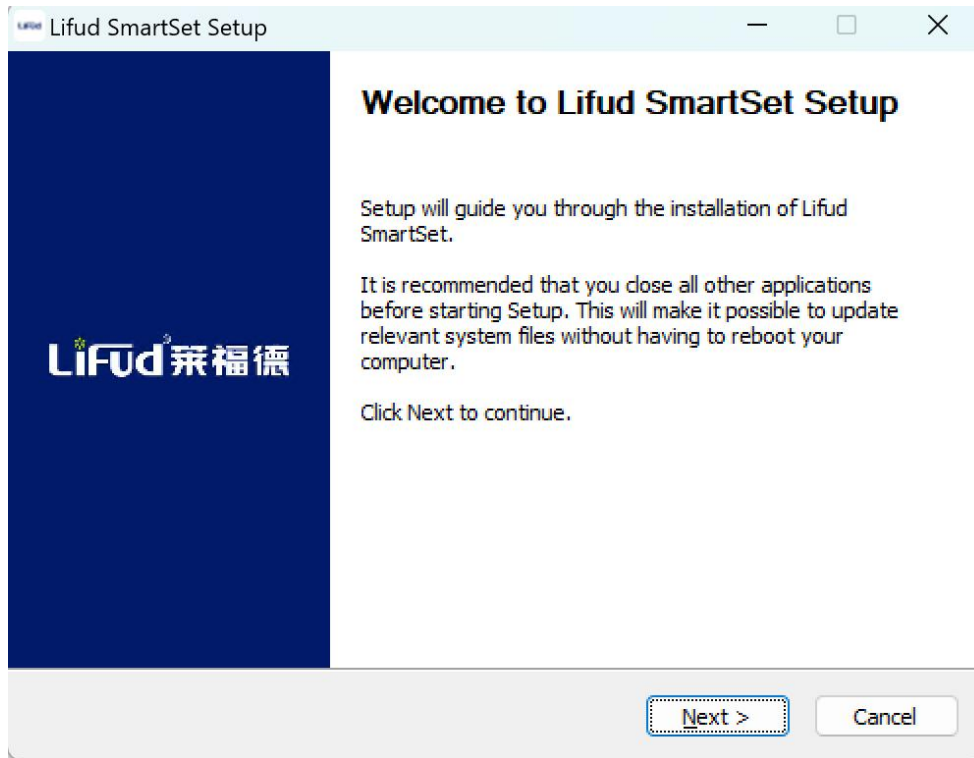
2.2 Install the software

Double click the Lifud SmartSet1.0.0.exe file to open the installation wizard and follow the prompts to install the software.

① Select the installer language. The application supports Chinese and English language.

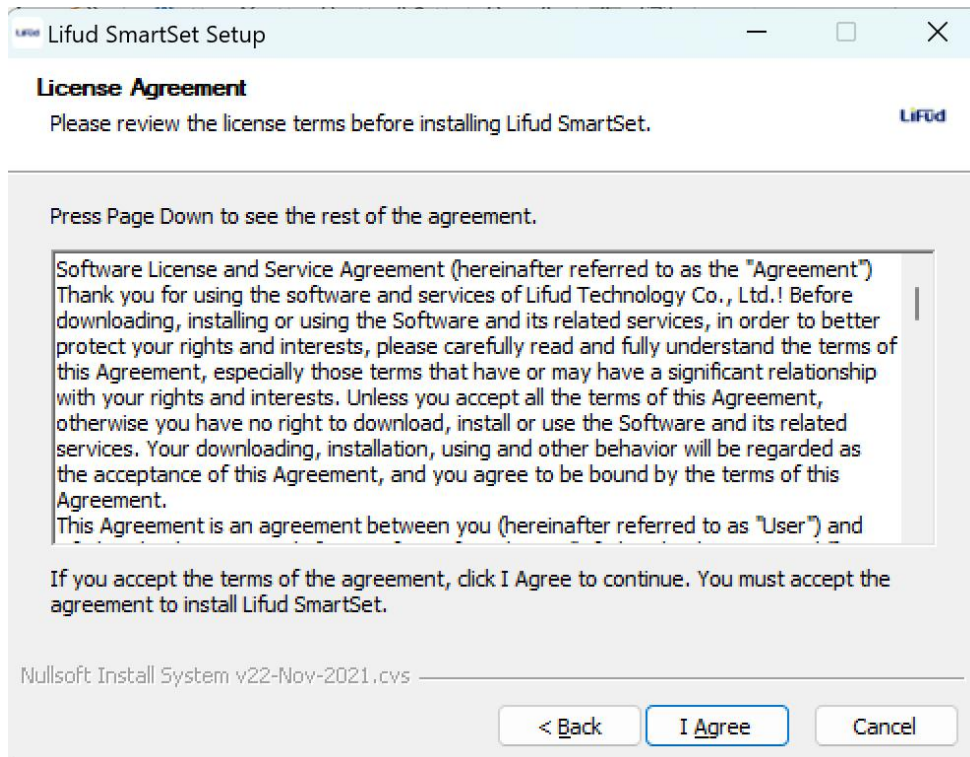


② Click “**Next**” on the Welcome screen



③ Software license

Click "I Agree".



④ Select components to install

Lifud SmartSet: software body, must be checked.

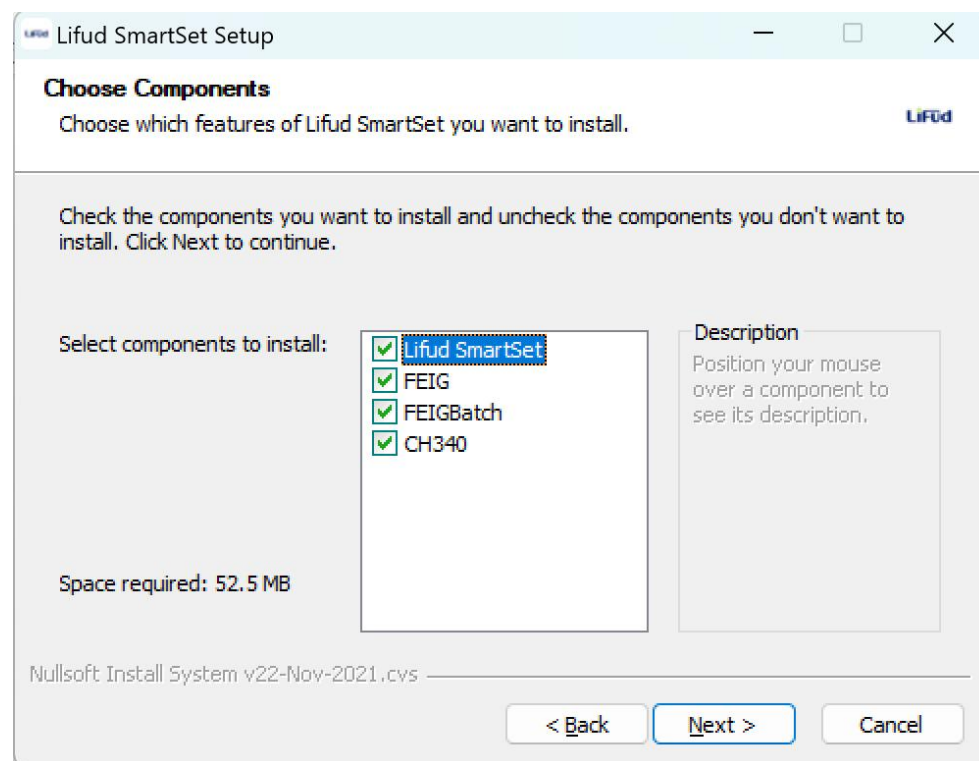
FEIG: FEIG's NFC desktop programmer driver.

FEIGBatch: FEIG's NFC batch/handheld card reader driver.

CH340: USB-to-serial driver.

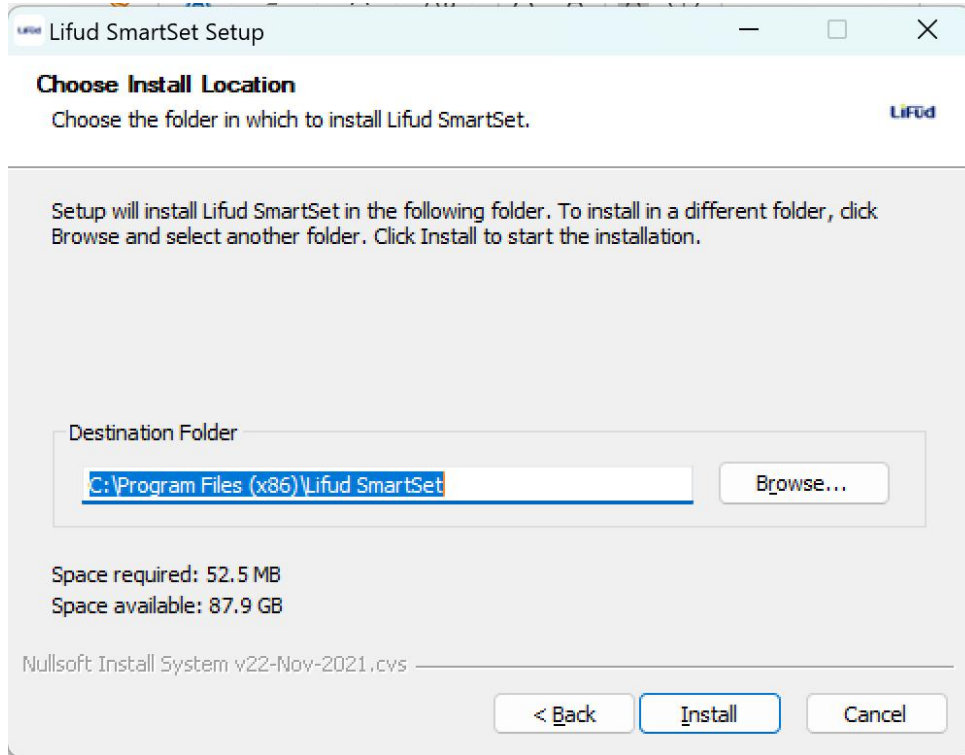
If the driver has been installed on the computer, you can deselect it. You can select the driver to install according to your actual situation. If the driver is not installed, the software cannot work normally.

After selecting the installation components, click **“Next”**.

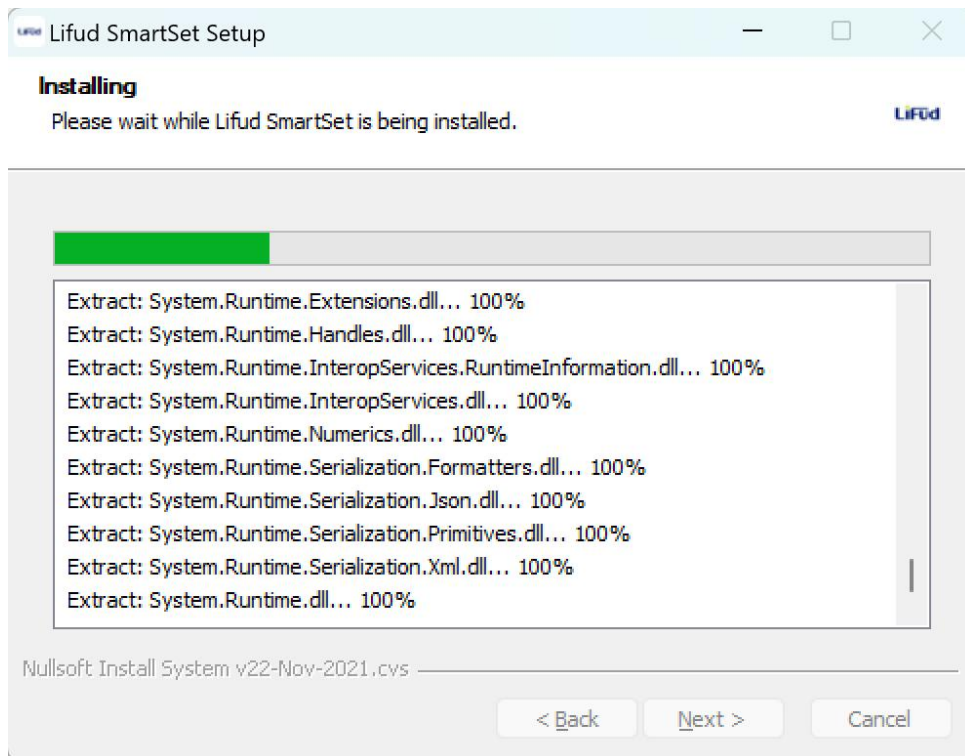


⑤ Select the destination folder

Click **“Browse”** to change the destination folder.



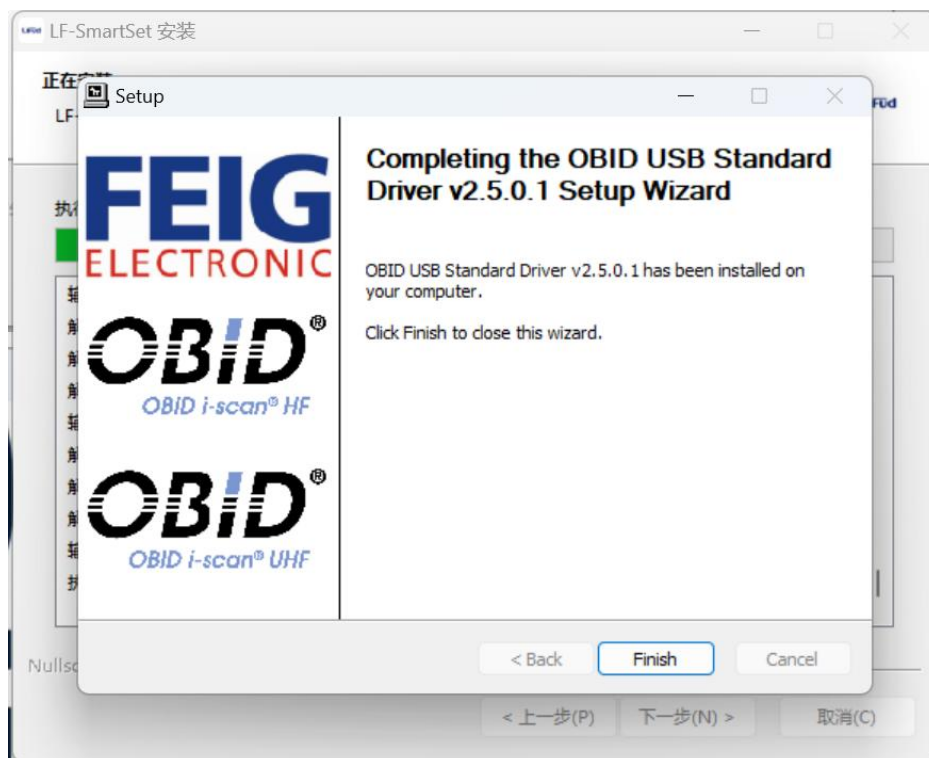
Click **“Install”** and install the software and drivers as prompted.



⑥ Install the FEIG driver

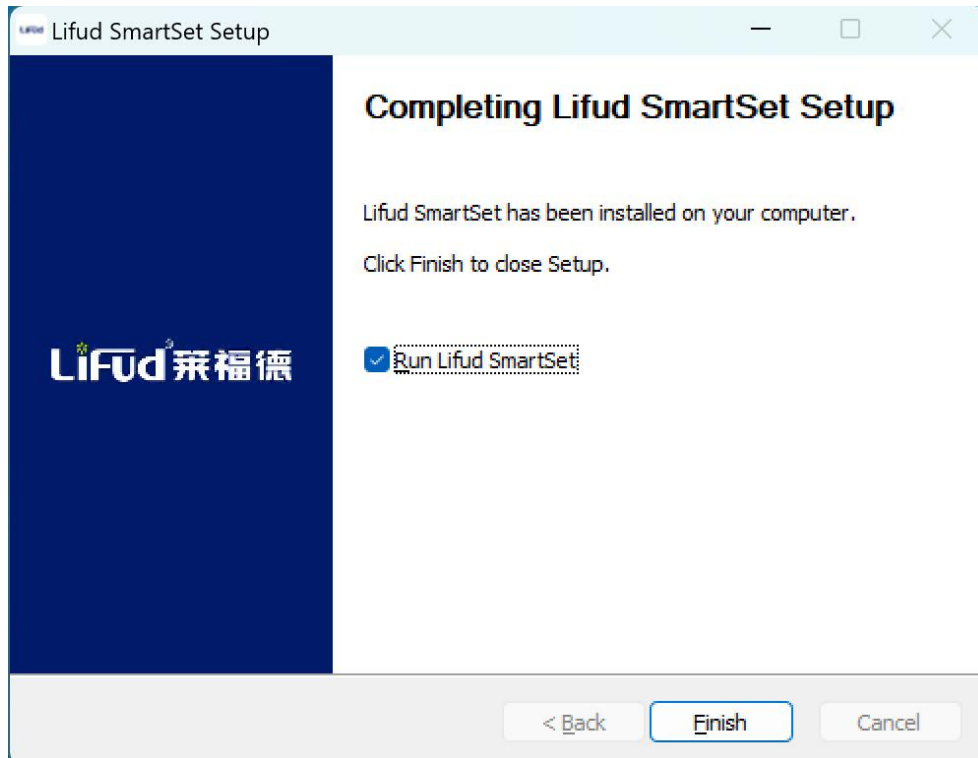


⑦ Install the FEIGBatch driver



Click **"Finish"**, and the CH340 driver will be automatically installed.

When the installation is complete, click **"Finish"** to run the software, while the desktop will generate a shortcut.



The software shortcut is as follows.



3. Connect to the device

3.1 NFC device connection

When using the NFC programmer to program the driver parameters, the antenna of the NFC driver should be in a parallel position with the antenna of the NFC programmer, and the driver should not be allowed to operate with power on. The driver must be powered off and fully discharged before it can read and write normally.

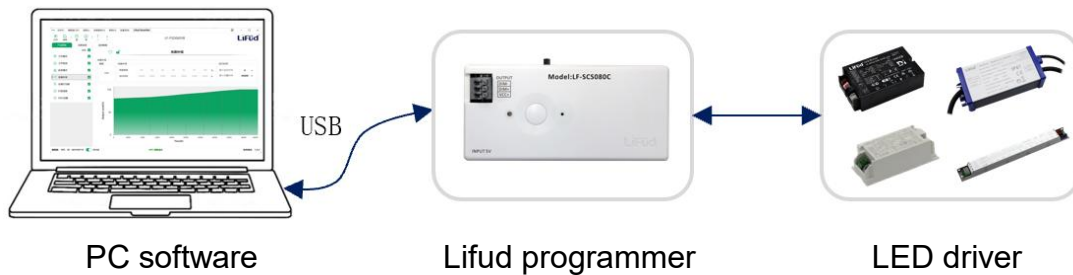


The driver is placed as follows.



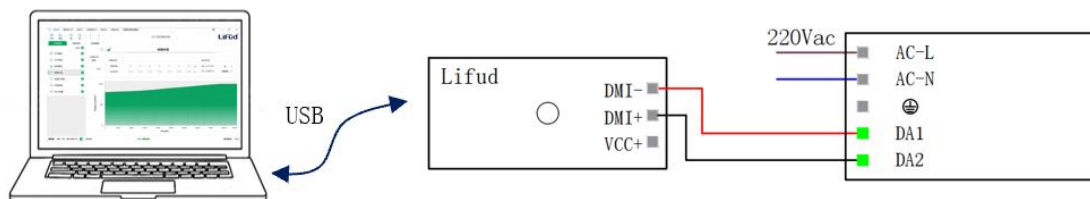
3.2 Lifud programmer connection

The Lifud programmer is connected to the computer through the USB data cable, and connected to the LED driver through the wire.



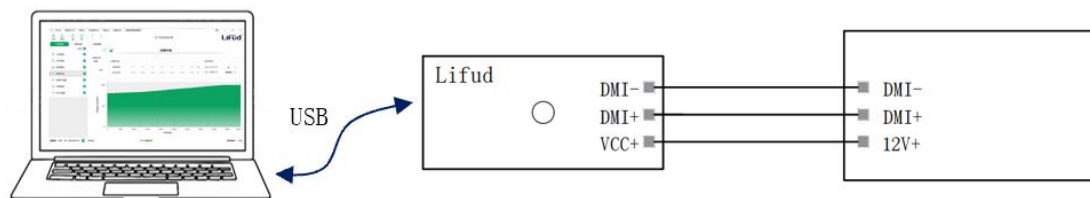
All the LED drivers that support Lifud programmer in our company can use LF-SCS080C programmer. Because of different product types, the wiring connecting the Lifud programmer to the LED driver will be different. Please follow the wiring instructions as specified in the product specification.

3.2.1 LED driver wiring for DALI series



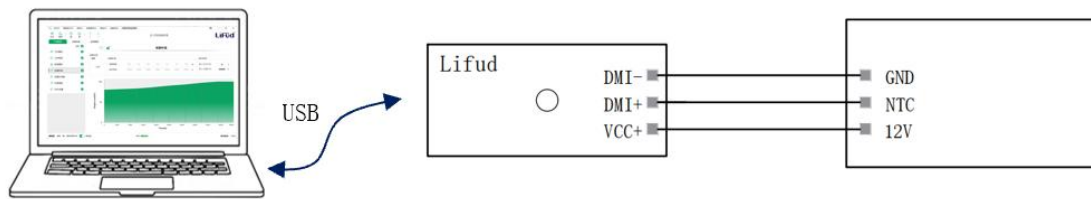
Note: When using the Lifud programmer to program the DALI driver parameters, the driver must be connected to AC, so that it can read and write normally. When programming the D4i driver, it is necessary to turn off the DALI bus power supply function.

3.2.2 LED driver wiring for high power series



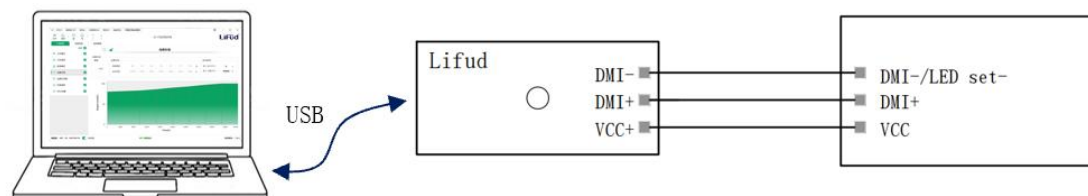
Note: When using the Lifud programmer to program the high power 0-10V driver parameters, it can read and write normally before the LED driver is connected to AC.

3.2.3 LED driver wiring for GMD-YN series



Note: When using the Lifud programmer to program the LED driver parameters of GMD-YN series, it can read and write normally before the LED driver is connected to AC.

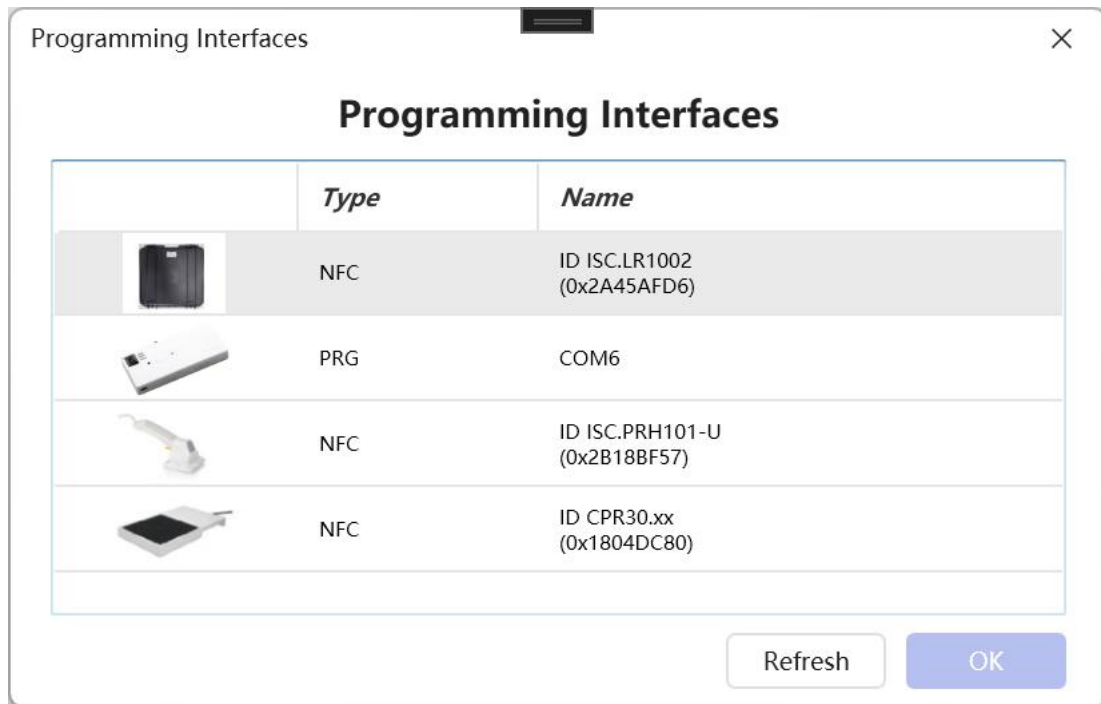
3.2.4 LED Driver wiring for ACD-C series



Note: When using the Lifud programmer to program the LED driver parameters of ACD-C series, it can read and write normally before the LED driver is connected to AC.

3.3 Select the programming interfaces

Open the software and click “Programming Interfaces” in the menu bar to see the programmer devices your computer is connected to.



Type: programmer type, NFC, and Lifud programmer (PRG).

Name: the ID of the NFC programmer. PRG is the corresponding COM port.

Refresh: refresh the list of programmers.

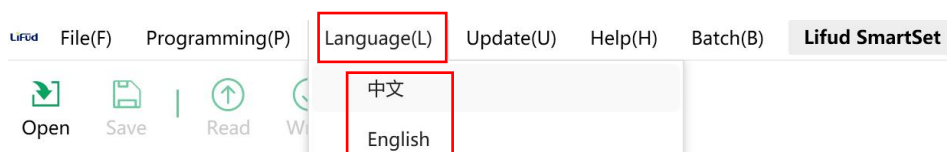
OK: click the programmer you need, and then click “OK” to read and write data with the programmer you have chosen.

3.4 Language switch

After opening the software, click “Language” to switch between Chinese and English.



Click “Chinese” to switch to the Chinese interface, and click “English” to switch to the English interface.



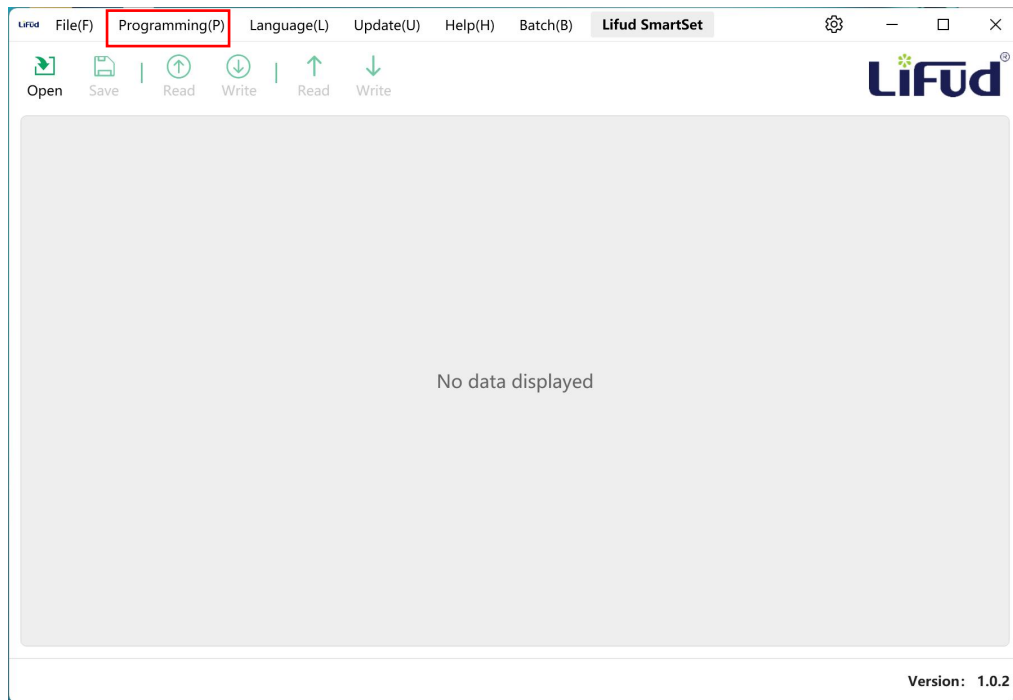
4. Software operation

4.1 NFC single programming

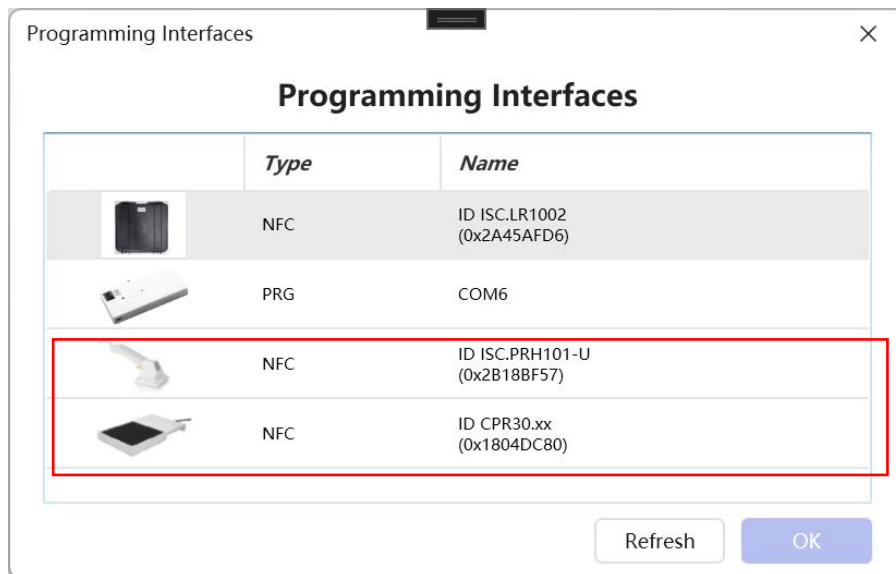
The steps for NFC single programming are as follows:

Double click to open the software -- select programming interface -- read LED driver parameters -- change LED driver parameters -- write LED driver parameters

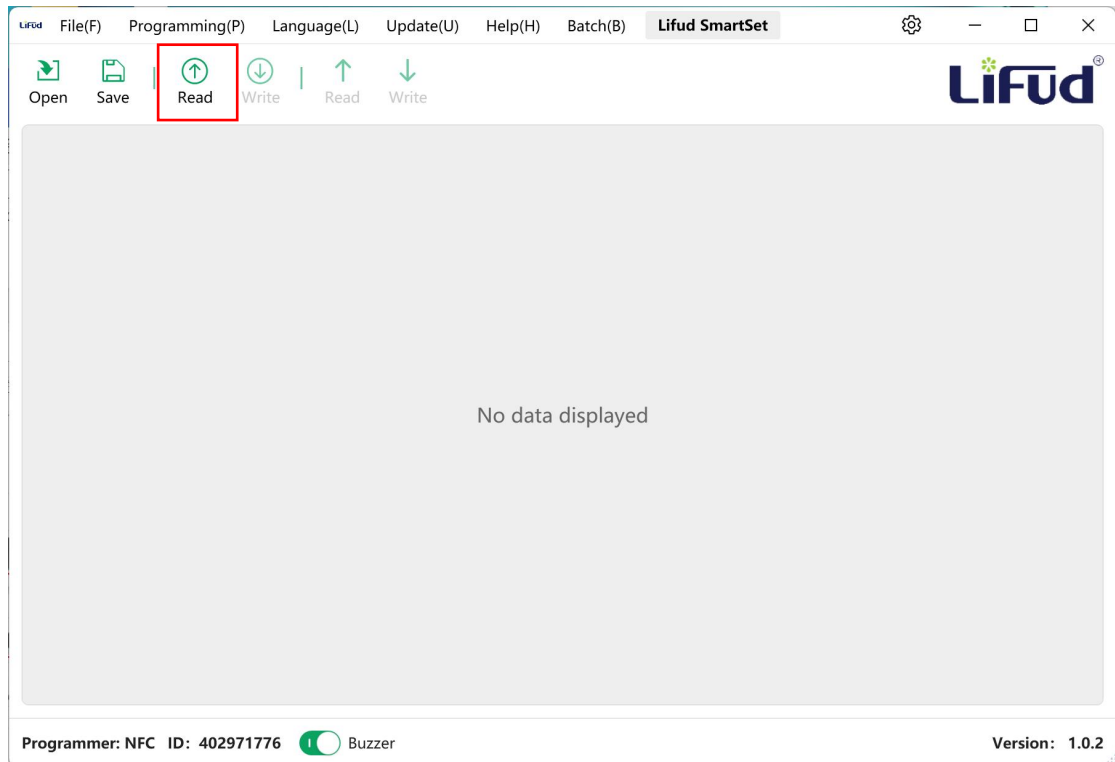
- ① Double click  to open the software.



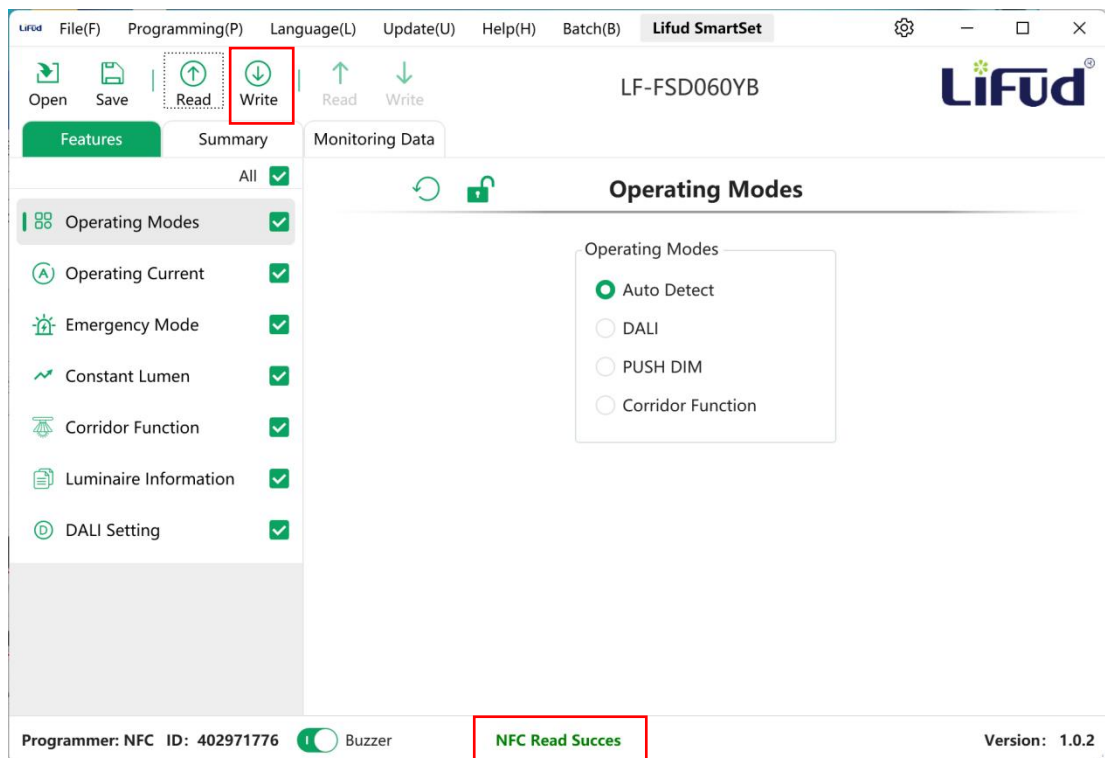
- ② Click **“Programming Interfaces”** on the menu bar to select the interface.
The NFC single programming interface is in the red box as shown below.



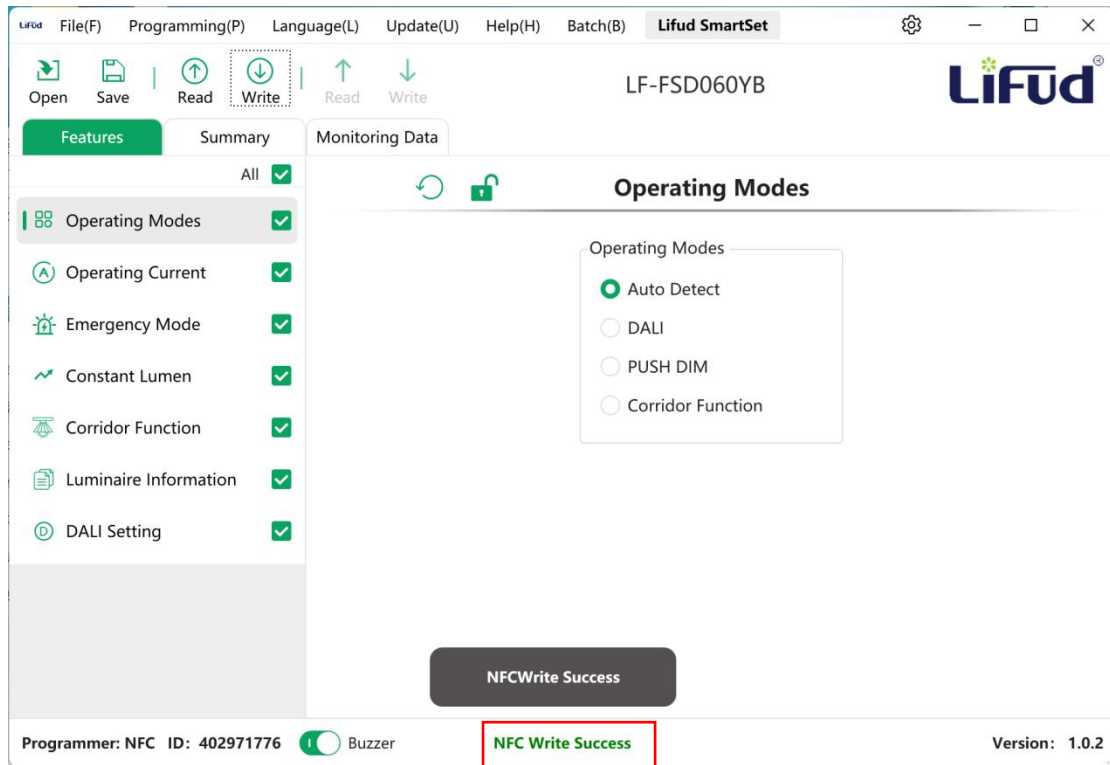
After selecting the programming interface, the following figure will be displayed.



③ Click **“Read”** in the red box above to display the data as shown below.



④ After changing the parameters, click **“Write”** in the red box above. After the writing succeeds, the writing success prompt will be displayed as shown below.



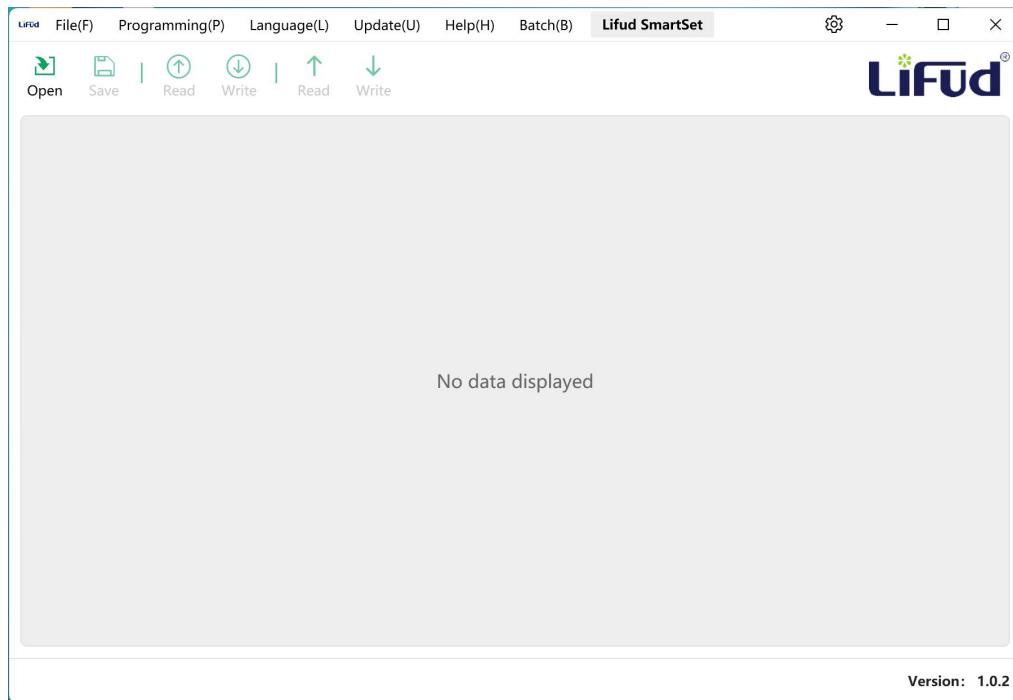
4.2 NFC batch programming

The steps for NFC batch programming are as follows:

Double click to open the software -- select programming interface -- read LED driver parameters -- change LED driver parameters -- Save . Lifud file -- open the “Batch Write” interface -- import . Lifud file -- batch read -- batch write

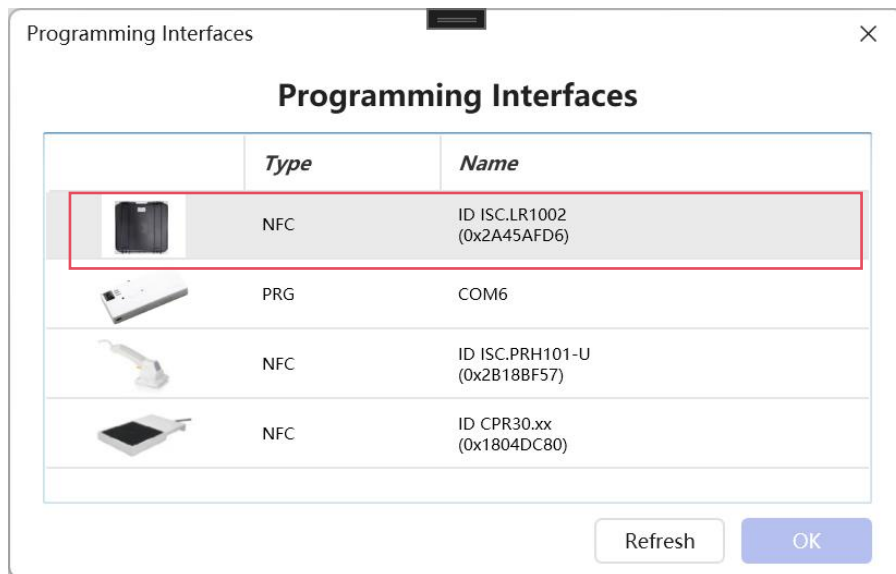


- ① Double click  to open the software.

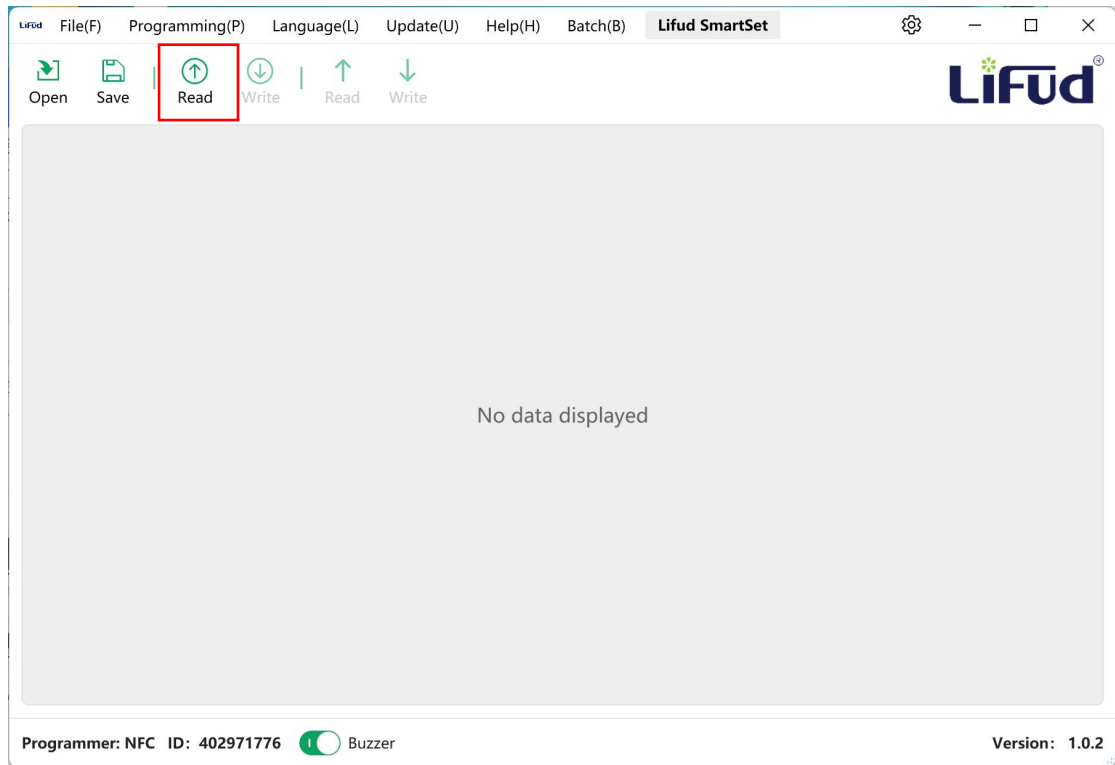


② Click **“Programming Interfaces”** on the menu bar to select the interface.

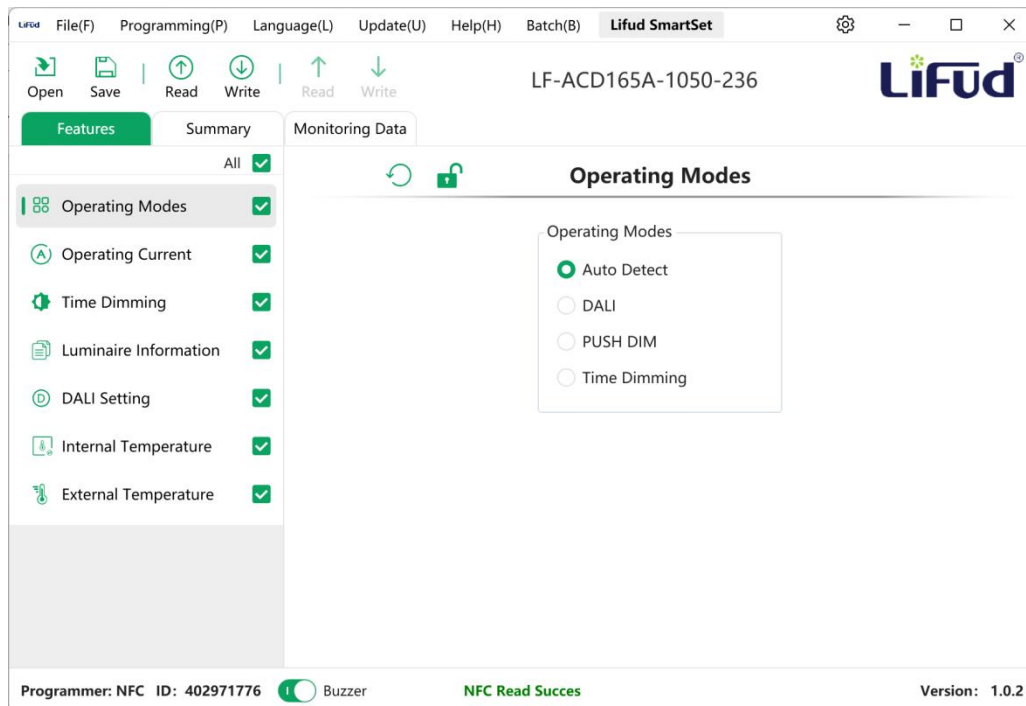
The NFC batch programming interface is in the red box as shown below.




After selecting the programming interface, the following figure will be displayed.



③ Click **“Read”** in the red box above to display the data as shown below.

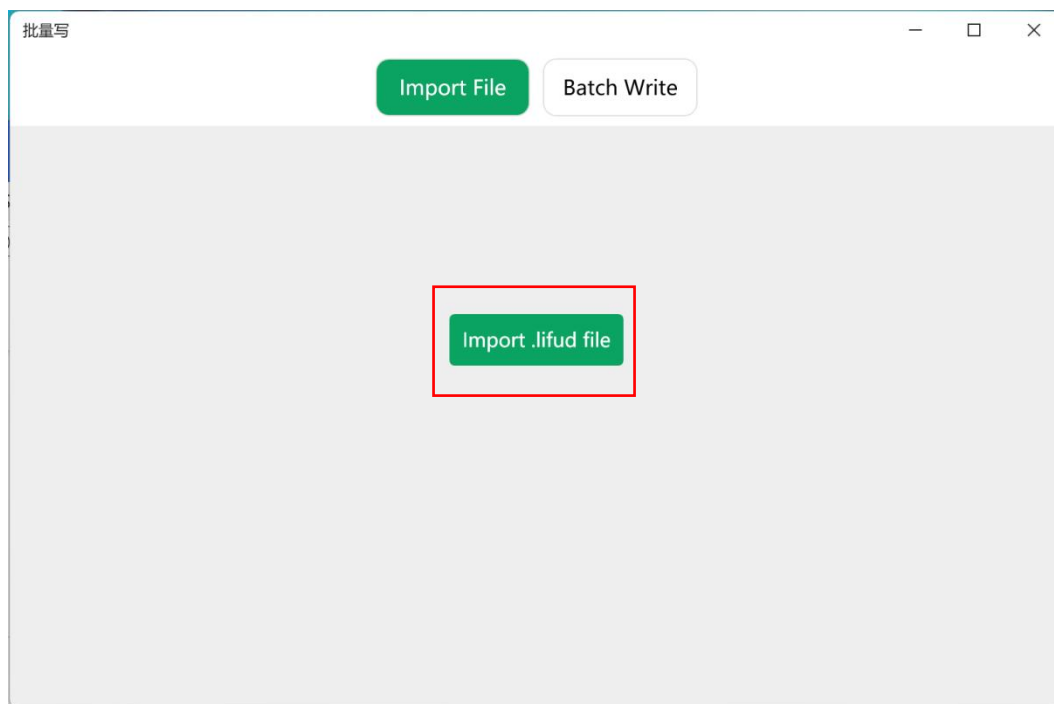



④ Change the LED driver parameters and then click **“Save”** to generate a . Lifud file, as follows.

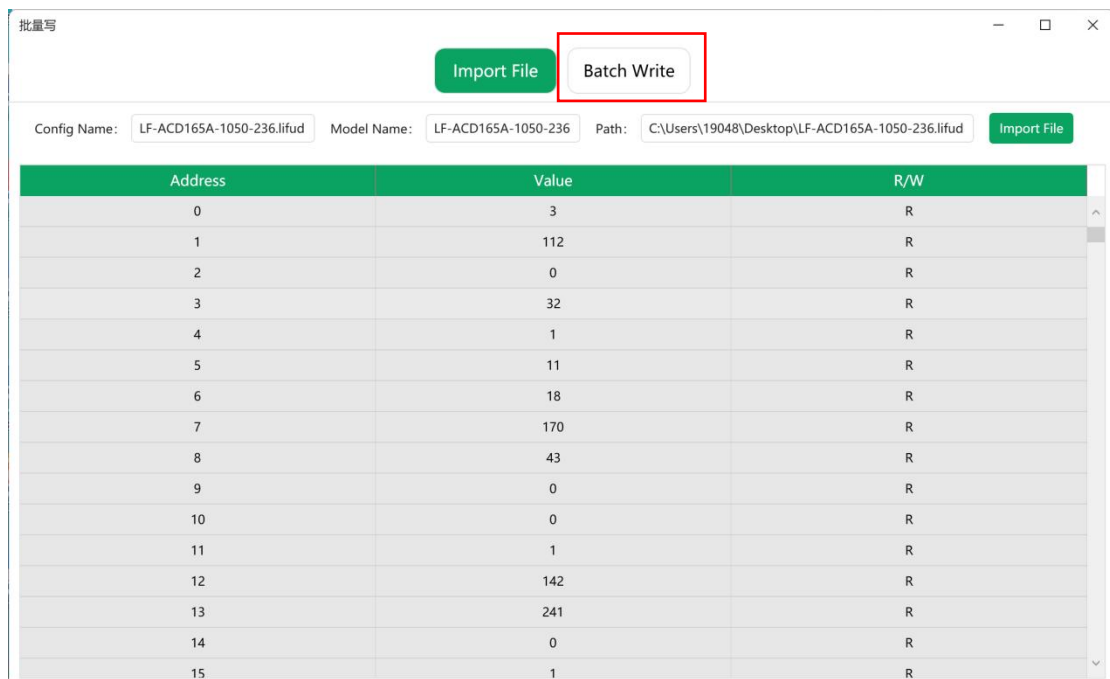
 LF-ACD165A-1050-236.lifud

⑤ Click **“Batch Write”** in the menu bar to enter the batch programming

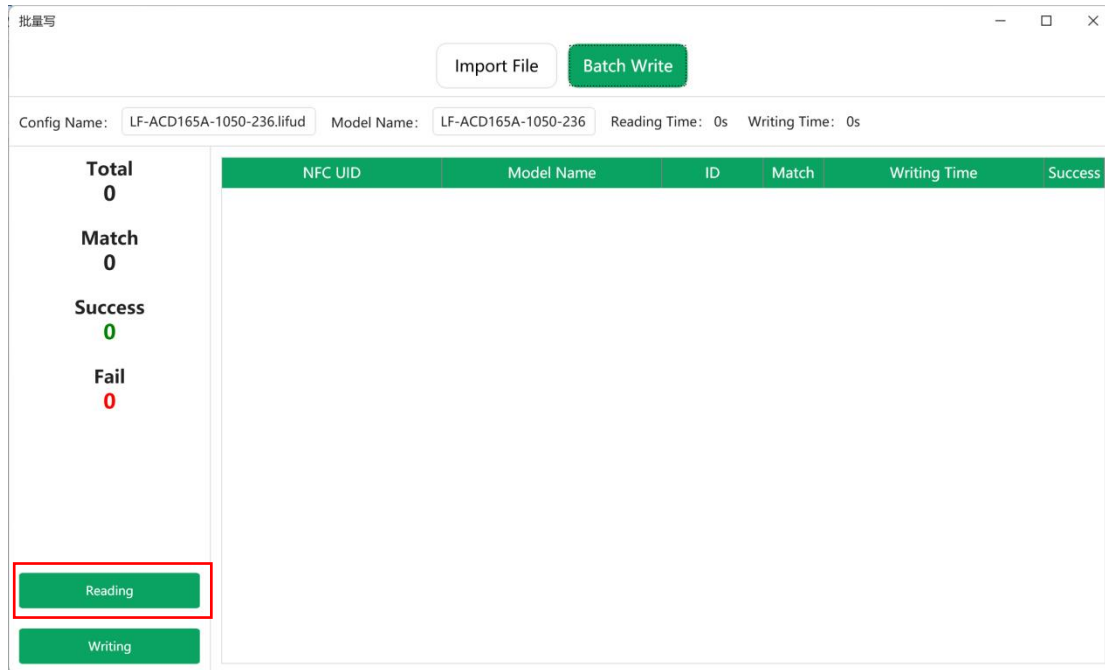
interface, as shown below.



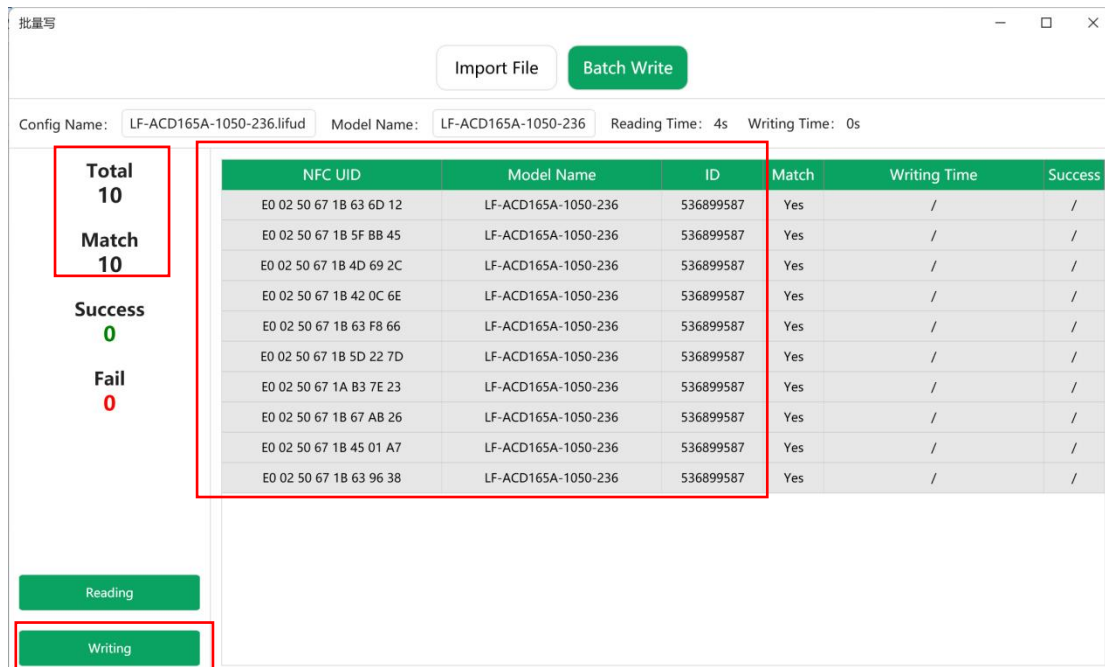
Click **“Import .lifud file”** to import the saved file  LF-ACD165A-1050-236.lifud . After importing the file, the interface will display the following picture, and the content under this interface cannot be changed.



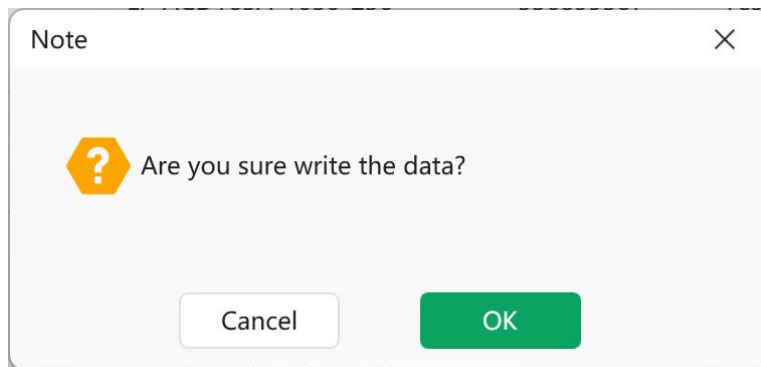
⑥ Click **“Batch write”** to enter the interface of batch reading and writing.



Batch reading: click “Reading” in the batch interface. After reading, the interface will show the total number of identified devices, the total number of match, writing time, NFC UID driver, model name, driver ID, and the matching status.



⑦ **Batch writing:** if the identified number is consistent with the actual number, you can click “Writing” to enter the prompt interface.



Click **“OK”** to start batch writing. After all writing is completed, the number of successful writing will be displayed, and the status of each model will show **“Success”**.

批量写

Import File Batch Write

Config Name: LF-ACD165A-1050-236.lifud Model Name: LF-ACD165A-1050-236 Reading Time: 4s Writing Time: 9s

Total
10

Match
10

Success
10

Fail
0

Reading

Writing

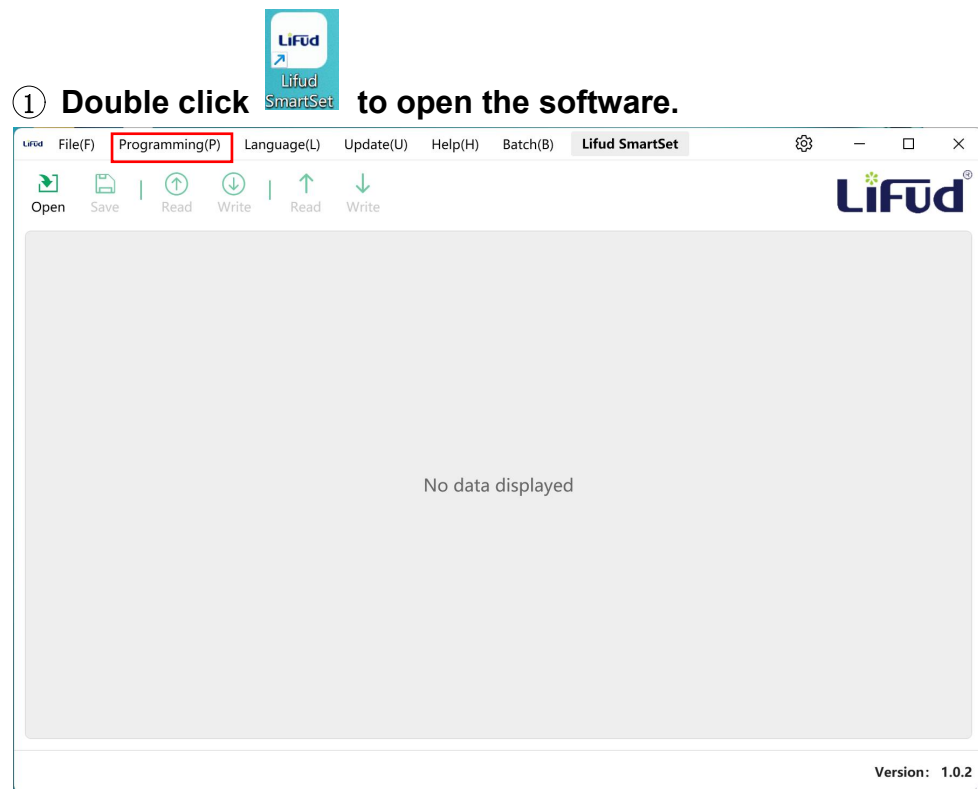
NFC UID	Model Name	ID	Match	Writing Time	Success
E0 02 50 67 1B 63 6D 12	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:33	Success
E0 02 50 67 1B 5F BB 45	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:37	Success
E0 02 50 67 1B 4D 69 2C	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:34	Success
E0 02 50 67 1B 42 0C 6E	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:34	Success
E0 02 50 67 1B 63 F8 66	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:34	Success
E0 02 50 67 1B 5D 22 7D	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:37	Success
E0 02 50 67 1A B3 7E 23	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:37	Success
E0 02 50 67 1B 67 AB 26	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:37	Success
E0 02 50 67 1B 45 01 A7	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:39	Success
E0 02 50 67 1B 63 96 38	LF-ACD165A-1050-236	536899587	Yes	2024/11/12 20:46:39	Success

The subsequent LED driver also follows the above batch reading and writing steps.

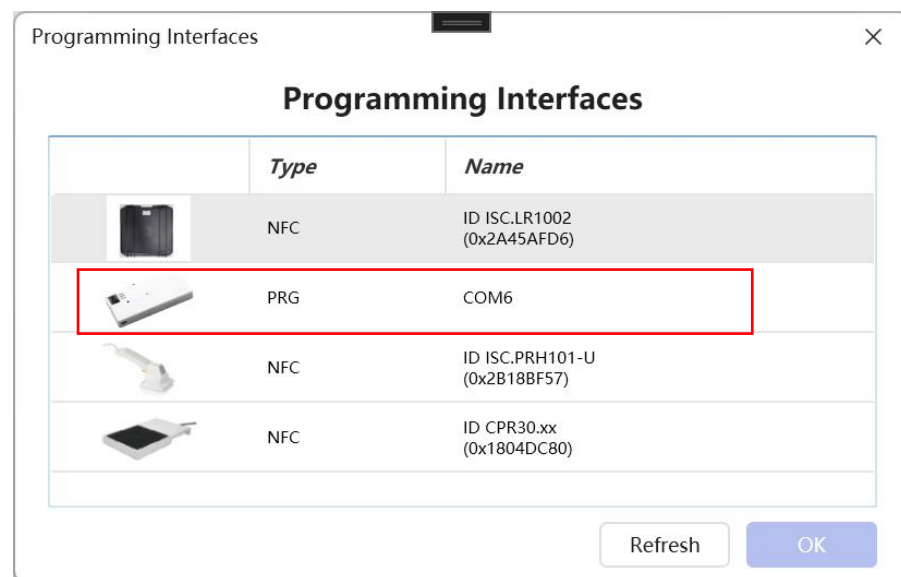
4.3 Lifud programmer programming LED driver

Lifud programmer programming LED driver operation steps are as follows:

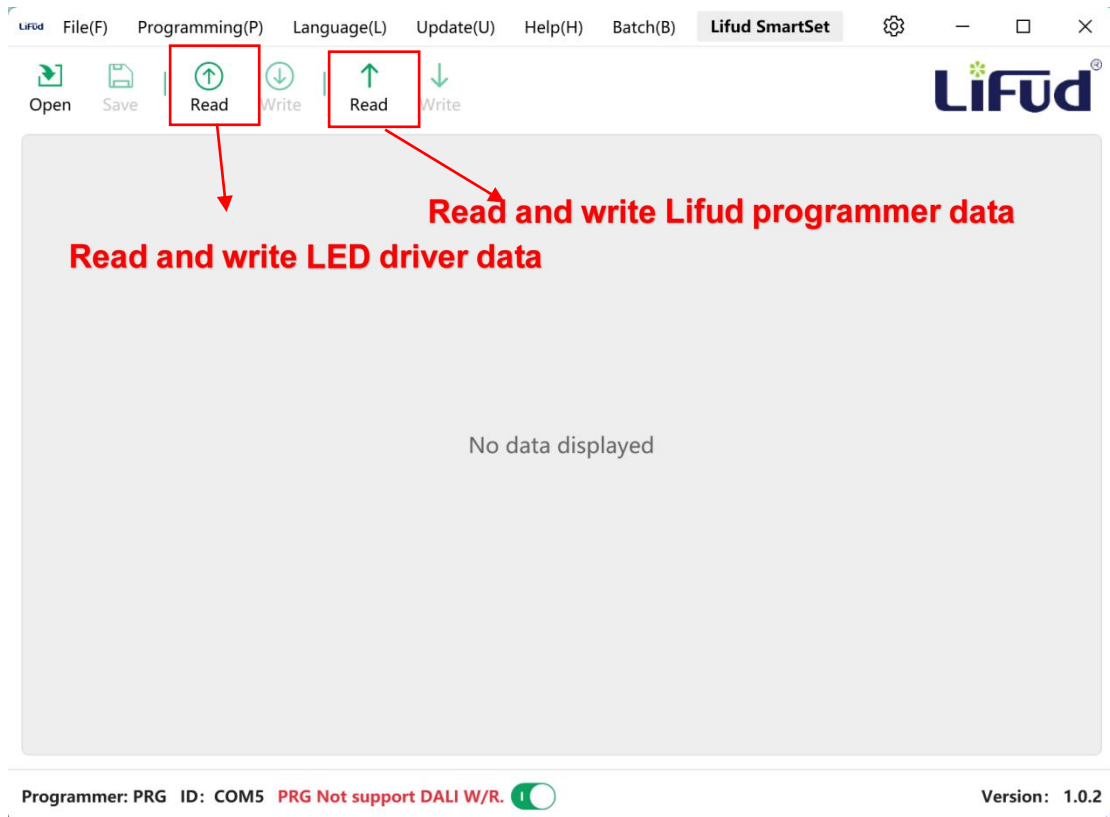
Double click to open the software -- select programming interface -- read LED driver parameters -- change LED driver parameters -- write LED driver parameters -- write to Lifud programmer



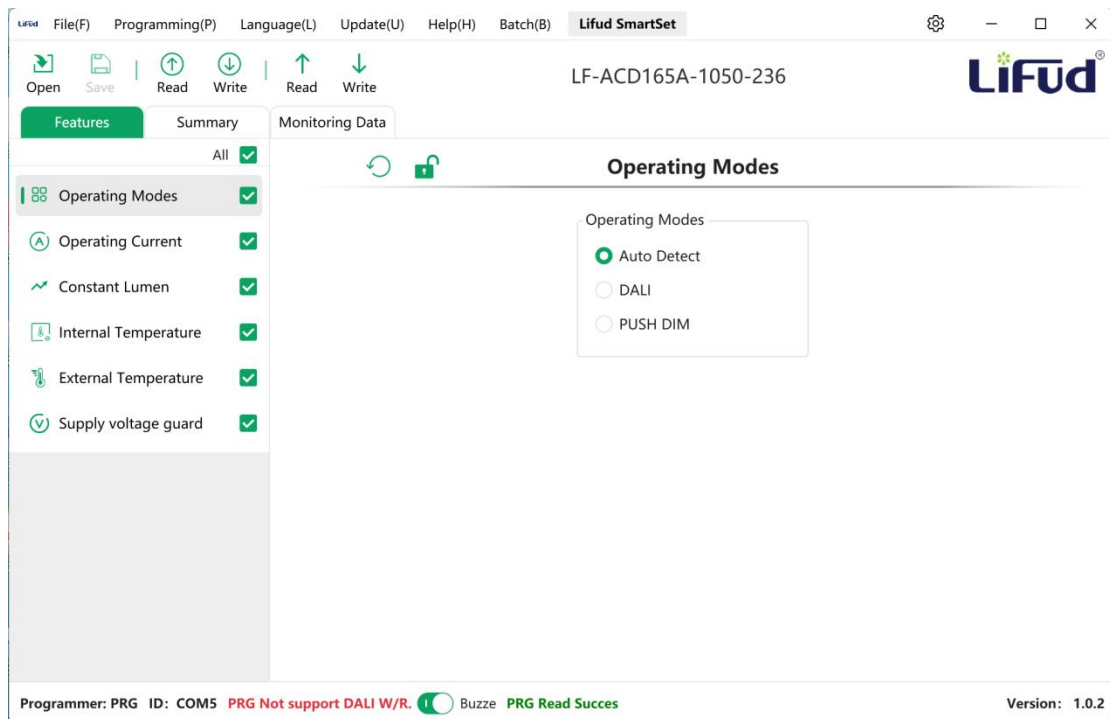
- ② Click **“Programming Interfaces”** on the menu bar to select the interface, and the Lifud programmer interface is shown below in the red box.



- ③ After selecting the programming interface, the following figure will be displayed.



④ Click **“Read”** to read the LED driver parameters;

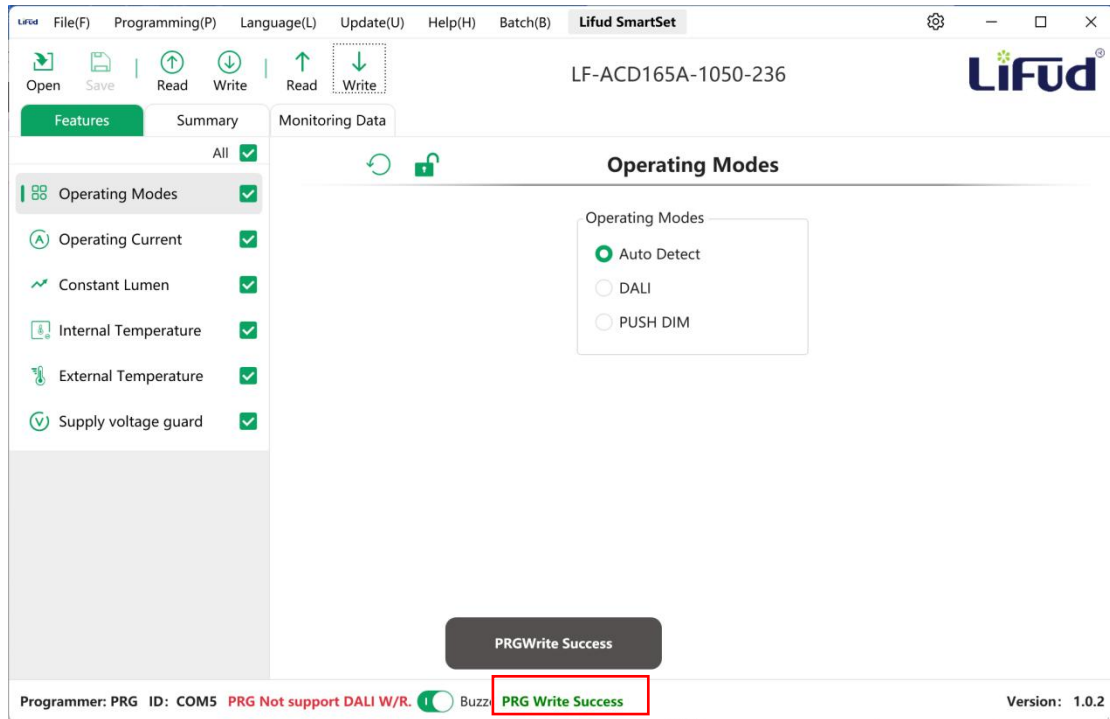


⑤ After changing the parameters, click **“Write”** to write the changed data to the LED driver;

⑥ Click **“Write”** to write the changed parameters to the Lifud parameter, which

can be offline programmed later.

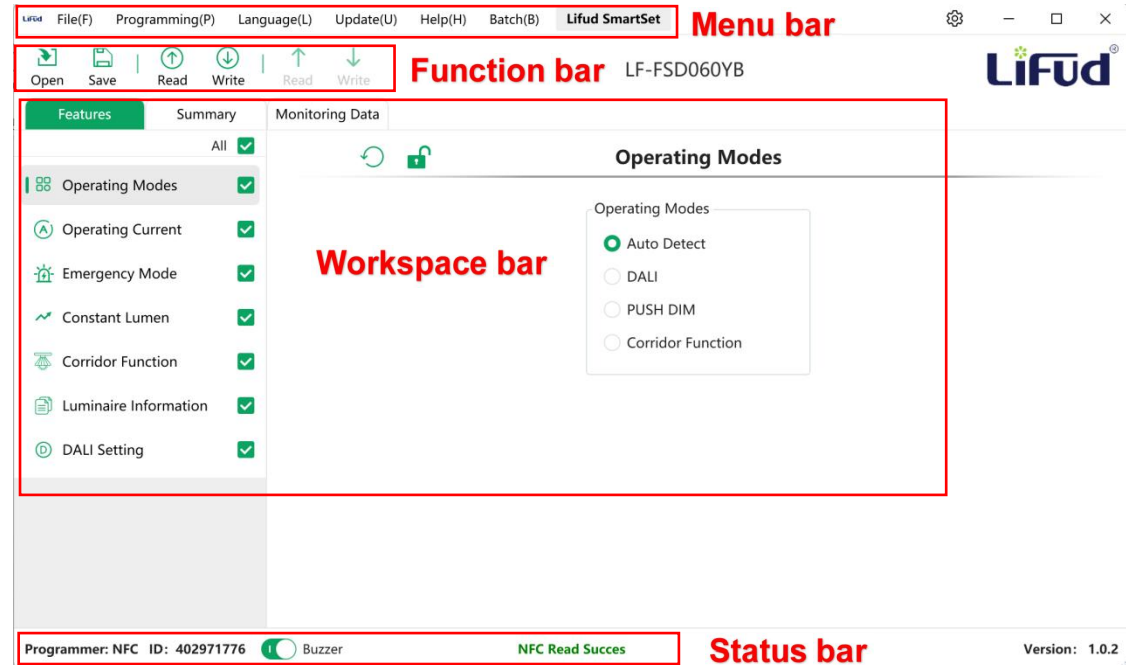
After the writing is successful, PRG is successfully written, as shown in the following picture.



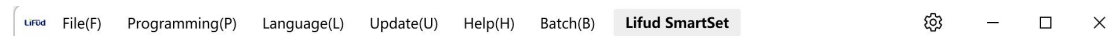
5. Software function introduction

5.1 Software interface

The software interface includes menu bar, function bar, workspace bar and status bar.



5.1.1 Menu bar



File (F) : open and save the file.

Programming (P) : select different programmers for reading and writing.

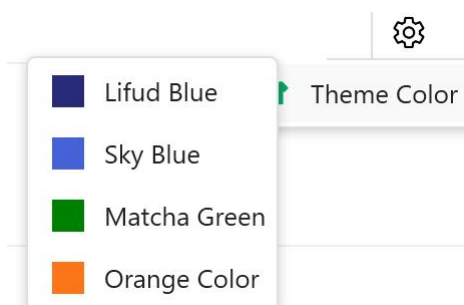
Language (L) : switch software language, supporting Chinese, English and Russian.

Update (U) : update software remotely.

Help (H) : user manual and About Us.

Batch (B) : open batch reading and writing.

 : select theme color, 4 kinds of color can be selected.

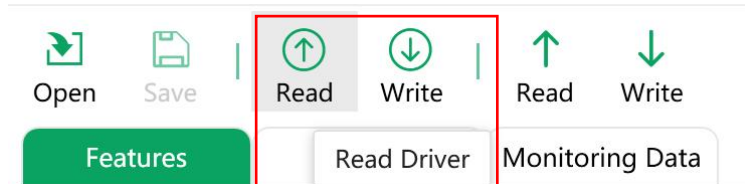


5.1.2 Function bar



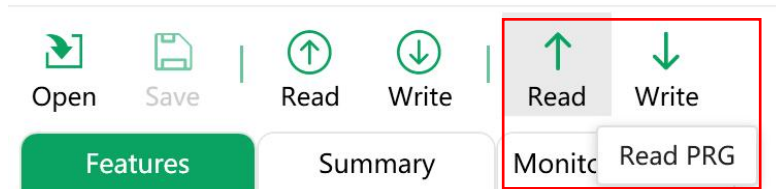
Open: open . lifud file.

Save: save the interface data as a . lifud file.



Read: read LED driver data.

Write: write LED driver data.



Read: read Lifud programmer data.


Write: write Lifud programmer data.


5.1.3 Status bar



Programmer: show the programmer type and ID.

Buzzer: turn the programmer sound off or on.

 Buzzer indicates to turn on the programmer sound.

 Buzzer indicates to turn off programmer sound.

NFC Read Success: indicate reading and writing status.

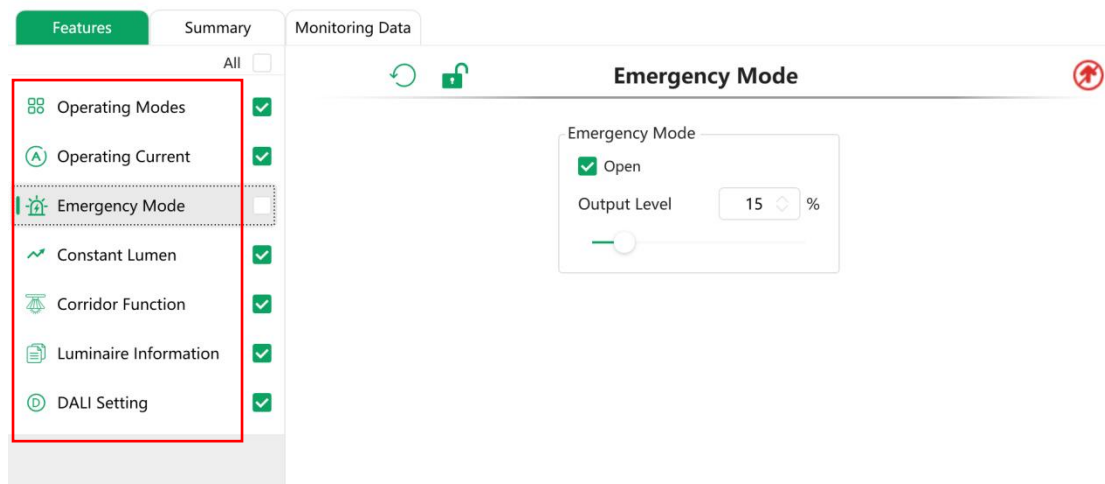
Software version: display the version number of the current software.

5.1.4 Workspace bar



The workspace bar includes features, summary and monitoring data.


① Features



- **Function area:** show programmable functions of the identified drivers. Different drivers support different programmable functions.


- **Function selection:**

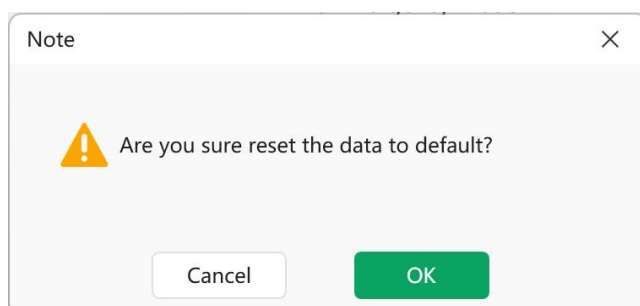
☒ indicates that this function is selected.

☐ indicates that this function is not selected. The icon  will be displayed on the interface. Even if this function parameter is changed, the changed data cannot be written to the driver.

All ☒ select all functions.

All ☐ deselect all functions.

- **Reset button:** click  to reset the data to default, as prompted in the following picture:



- **Interface lock:**

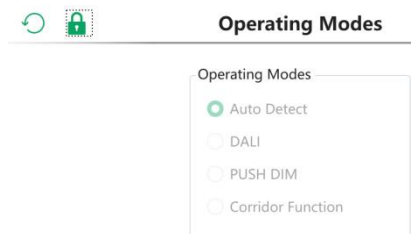


indicates that the parameter editing interface is open for

editing.










indicates that the parameter editing interface is not open for editing. The interface is gray as shown in the following figure.



② Summary

Display driver's basic information, and you can click **“Copy All”** to copy all device information.

Features		Summary	Monitoring Data
		Copy All	
	Model Name	LF-FSD060YB	
	Model ID Number	20230911	
	Operating Voltage	54-240V	
	Operating Current	120-550mA	
	Rated Power	60W	
	Firmware Version	1.01	
	NVM Version	18	

③ Monitoring data

View reading and writing data, Recv<- received data, Send-> data written to the card reader.

Click “Clean Data” to clean all data;

Click “Copy All” to copy all data;

Features

Summary

Monitoring Data

Clean Data

Copy All

2024-11-12 19:41:05:917 Recv<-

00 04 00 02 03 02 00 80 00 11 01 4C 46 2D 53 43 53 30 38 30 41 20 56 32 2E 30 32 13 D6

2024-11-12 19:42:10:152 Send->

00 04 00 01 03 02 02 80 00 02 00 00 BE 8B

2024-11-12 19:42:10:556 Recv<-

00 04 00 01 03 02 02 80 00 14 01 4C 46 2D 41 43 44 31 36 35 41 2D 31 30 35 30 2D 32 33 36 2E F5

2024-11-12 19:42:10:560 Send->

00 04 00 01 03 02 05 80 00 05 00 00 00 00 00 21 53

2024-11-12 19:42:10:863 Recv<-

00 04 00 01 03 02 05 80 00 05 00 13 07 00 00 94 16

2024-11-12 19:42:10:865 Send->

5.2 Function parameter description

5.2.1 Operating mode

This function is used to set the operating mode of the LED driver. The operating modes supported by different series of LED drivers may be different, including Auto Detect, DALI, PUSH DIM, Corridor Function. Checking “Auto Detect” means that the LED driver can support DALI, PUSH DIM or Corridor Function; checking “DALI” means that the LED driver only supports DALI dimming function, and so on.

Operating Modes

Operating Modes

☒ Auto Detect

☐ DALI

☐ PUSH DIM

☐ Corridor Function

Set the appropriate operating mode according to your actual needs.

5.2.2 Operating current

Change the output current of the LED driver with the minimum accuracy of 1mA. You can directly input the value, and it will show the output voltage range and output power range corresponding to the current.



Operating Current

Operating Current	
Maximum Current	550 mA
Operating Current	550 mA
Minimum Current	120 mA
Output Voltage	54-109.1 V
Output Power	30-60 W

Click to switch to maximum current

Current setting area

Click to switch to minimum current

5.2.3 Operating frequency

Change the output frequency of the LED driver, mainly for constant voltage series products, and you can directly input the value.



Operating Frequency

Maximum Frequency	22000 Hz
Operating Frequency	3600 Hz
Minimum Frequency	300 Hz

Click to switch to maximum frequency

Frequency setting area

Click to switch to minimum frequency

5.2.4 Operating power

Change the output power of the LED driver to output the value directly.



Operating Power

Operating Power	
Maximum Power	240 W
Operating Power	240 W
Minimum Power	120 W



Click to switch to maximum power

Power setting area

Click to switch to minimum power

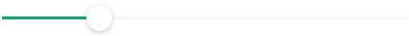







5.2.5 Toggle current

For LED driver that supports toggle to change the current. Three toggle current levels are currently supported.



Toggle Current

Toggle Current

Toggle Current 1		834  mA
Toggle Current 2		912  mA
Toggle Current 3		1000  mA
Toggle Current 4		1100  mA

5.2.6 Output mode

DALI DT8 models can be set to different output modes.

Output Mode



Output Mode

- ☐ 1x DT6
- ☐ 2x DT6
- ☒ 1x DT8

5.2.7 Emergency mode (EL)

You should click “Open” to change the parameters. When the emergency mode is open, you can adjust the output level in emergency mode through the slider or directly input a value.

☒ Open indicates that emergency mode is open. ☐ Open indicates that emergency mode is closed.

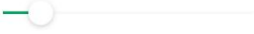



Emergency Mode



Emergency Mode

☒ Open

Output Level %



5.2.8 Dimming curve



Dimming Curve



Dimming Curve

☒ Logarithmic

☐ Linear

5.2.9 Dimming voltage (0-10V)

You can set turn on voltage, turn off voltage, and maximum voltage ranging 0-10V.



Dmming Voltage(0~10V)

Dmming Voltage(0~10V)

Turn Off

0.6

V

Turn On

1.0

V

Maximum

9.0

V

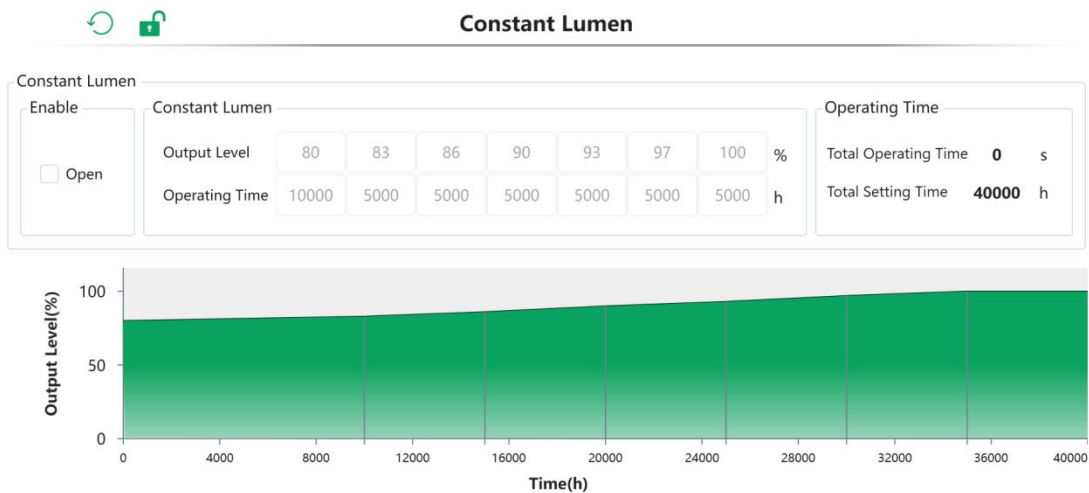
The Turn Off value must be less than the Turn On value by more than 0.2V

5.2.10 Constant lumen (CLO)

The light output of an LED luminaire reduces over the course of its lifetime. With this function the light output of the LED module can be kept equal over the lifetime by constantly increasing the output current of the LED driver.

You should click “Open” to enable the CLO function and then change the parameters. Each step can set the operating time and output level.

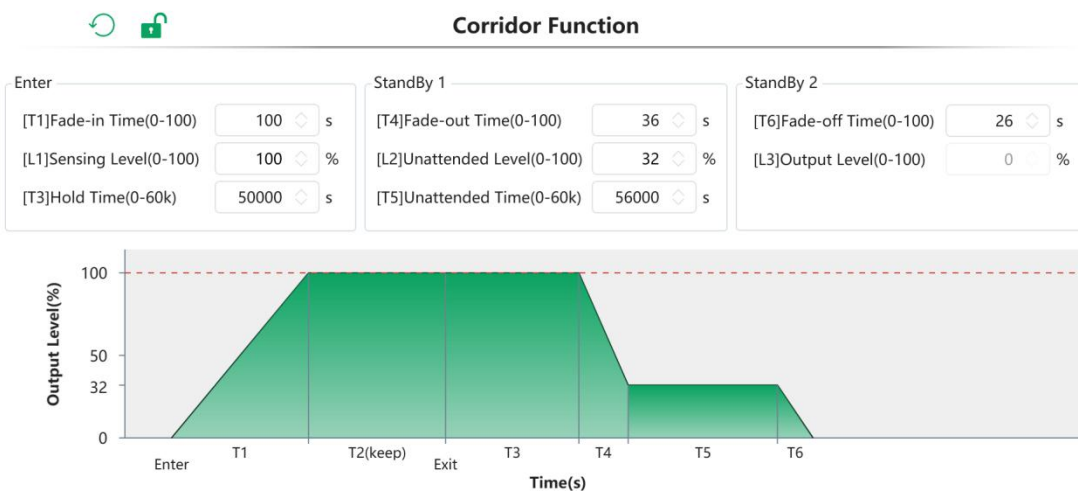
☒ Open indicates that CLO mode is open. ☐ Open indicates that CLO mode is closed.



5.2.11 Corridor function

With a relay motion detector, it can output the preset brightness when a person is detected. After the person left, the brightness dims slowly to a smaller value or switches off completely.

The maximum value of the standby hold time is 60,000s.

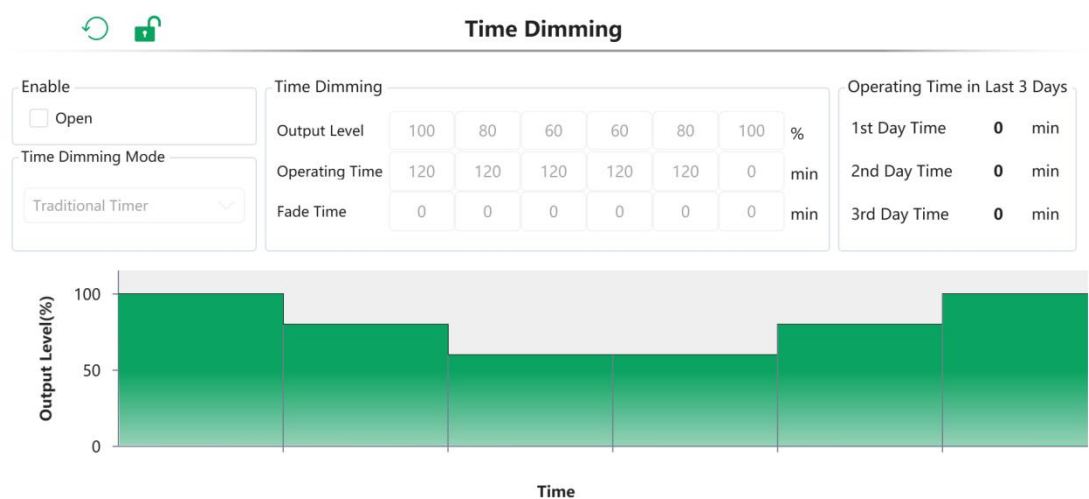


5.2.12 Time dimming

The time dimming function can be turned off by not clicking “Open” and be turned on by clicking “Open”. It has 3 modes: Traditional Timer, Self Adapting-Midnight and Self Adapting-Percentage. Enable the function to enter the Traditional Timer mode by default. There are 6 steps in each mode, and you can set the brightness of each step, the operating time of the first to fifth

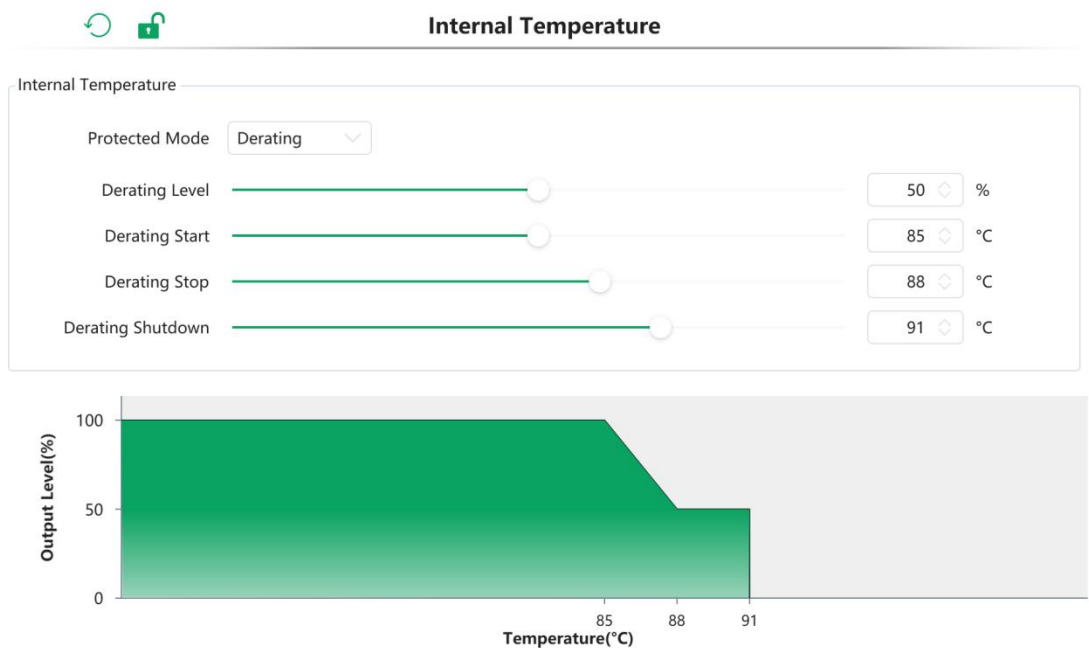
steps, and the fade time between the 2 steps.

☒ Open indicates that time dimming mode is open. ☐ Open indicates that time dimming mode is closed.

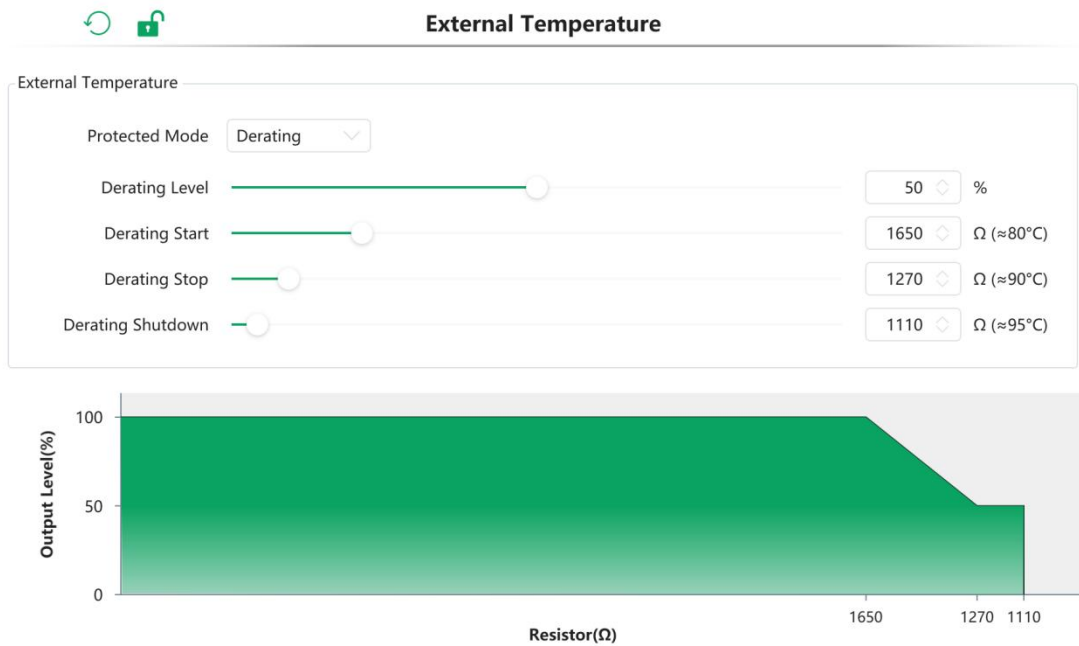


5.2.13 Overtemperature protection

Internal temperature protection



External temperature protection



Protected Mode: you can set 2 protected modes, derating and shutdown.

Derating Level: the level of brightness that reaches the stop point of derating.

Derating Start: the temperature/resistance at which derating starts overtemperature protection.

Derating Stop: the temperature/resistance at which derating suspends overtemperature protection.

Derating Shutdown: the temperature/resistance at which the power is turned off.

5.2.14 Luminaire information (DALI Part 251)

Edit the corresponding luminaire information according to the actual needs.

Luminaire Information

Luminaire Data	Parameter
Luminaire Manufacturer GTIN <input style="width: 150px;" type="text"/>	Nominal Input Power(1-1000) <input style="width: 50px;" type="text"/> w
Luminaire Identification number <input style="width: 150px;" type="text"/>	Power at Minimum Dim Level (1-1000) <input style="width: 50px;" type="text"/> w
Luminaire Color(max.24chars) <input style="width: 150px;" type="text"/>	Minimum AC Mains Voltage (90-480) <input style="width: 50px;" type="text"/> v
Luminaire Identification(max. 60chars) <input style="width: 150px;" type="text"/>	Maximum AC Mains Voltage (90-480) <input style="width: 50px;" type="text"/> v
Light Distribution Type <input style="width: 50px;" type="text"/>	Nominal Light Output(1-99999) <input style="width: 50px;" type="text"/> lm
Luminaire Data of Manufacturer <input style="width: 50px;" type="text"/> Week <input style="width: 50px;" type="text"/> Year	Colour Rendering Index(1-100) <input style="width: 50px;" type="text"/>
	Colour Temperature(1-17000) <input style="width: 50px;" type="text"/> k
	Rated Median Useful Life of Luminaire(0-253) <input style="width: 50px;" type="text"/> kh
	Internal Control Gear Reference Temperature(0-193) <input style="width: 50px;" type="text"/> °C
	Rated Median Useful Light Source Starts(0-65533) <input style="width: 50px;" type="text"/> cycle

5.2.15 DALI setting

The DALI setting interface includes basic parameters, color temperature, group, scene, energy reporting, and maintenance,

- ① **Basic parameters:** including dimming curve, short address, fade time and rate, extended fade time, power on/system failure level and max/min brightness level.

Uncheck the button in front of power on level/system failure level, then it will be set to MASK, and you can set the corresponding brightness level only if you check it.

DALI Setting

Basic
Group
Scene
Energy Reporting
Maintenance

Dimming Curve

☒ Logarithmic

☐ Linear

Short Address

Fade

Fade Time s

Fade Rate step/s

Extended Fade Time

Base x Multiplier =fast

Output Level

☒ Power On Level

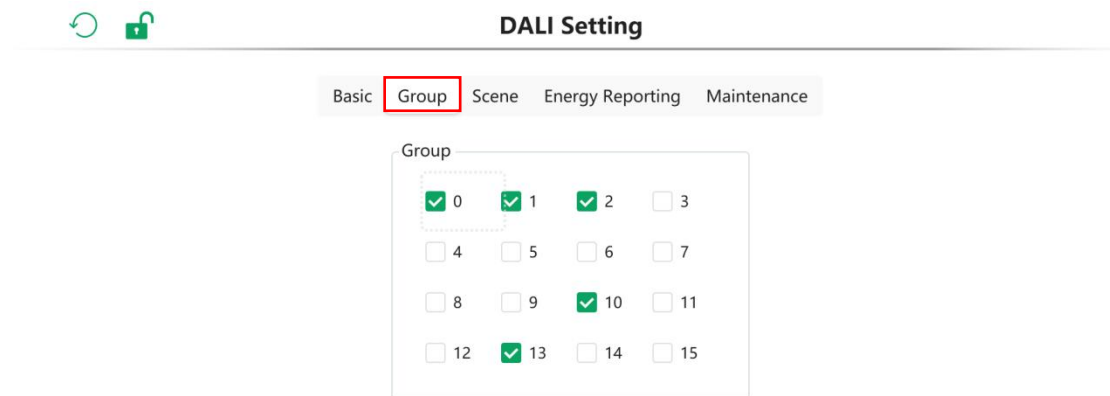
☐ System Failure Level

Min Level

Max Level

② DALI group

Each driver can be a member of up to 16 groups. Checking the corresponding group means the LED driver is added to this group, and if it is not checked, the LED driver is removed from this group.

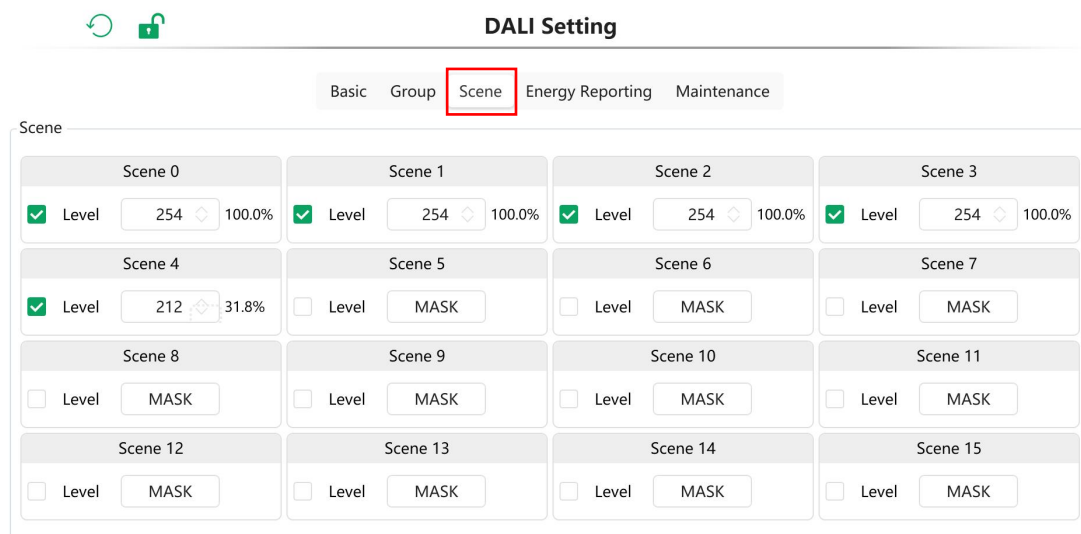


The image shows the 'DALI Setting' interface with the 'Group' tab selected. The 'Group' tab is highlighted with a red box. Below the tabs, there is a 'Group' section with a grid of 16 checkboxes, numbered 0 to 15. Checkboxes 0, 1, 2, 10, and 13 are checked, while the others are unchecked.

Group	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

③ DALI scene:

Up to 16 scene values can be stored in each driver. The brightness level can be set only after the scene is checked. The unchecked will be set to MASK.



The image shows the 'DALI Setting' interface with the 'Scene' tab selected. The 'Scene' tab is highlighted with a red box. Below the tabs, there is a 'Scene' section with a grid of 16 scene settings, numbered 0 to 15. Each scene has a checkbox and a 'Level' field. Scenes 0, 1, 2, and 4 are checked and have specific brightness levels. Scenes 5 through 15 are unchecked and set to 'MASK'.

Scene	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	<input checked="" type="checkbox"/> Level 254 100.0%	<input checked="" type="checkbox"/> Level 254 100.0%	<input checked="" type="checkbox"/> Level 254 100.0%	<input checked="" type="checkbox"/> Level 254 100.0%	<input checked="" type="checkbox"/> Level 212 31.8%	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK	<input type="checkbox"/> Level MASK

④ Energy reporting (DALI Part 252)

Not editable, reset only.

DALI Setting

Basic
Group
Scene
Energy Reporting
Maintenance

Energy Reporting

Active Energy

0.082 kWh

Apperent Energy

0.003 kWh

Active Energy Load Side

0 kWh

Reset

⑤ Maintenance:

Not editable, reset only. Click “Reset” to clean the recorded data as 0.

DALI Setting

Basic
Group
Scene
Energy Reporting
Maintenance

Driver

Operating Time

2.631 h

Start Counter

45

Overall Failure Counter

4

Supply Undervoltage Counter

0

Supply Overvoltage Counter

0

Over Power Limitation Counter

0

Thermal Derating Counter

0

Thermal Shutdown Counter

0

Light Source

Start Counter Resettable

3

Start Counter

3

On Time Resettable

0.796 h

On Time

0.796 h

Overall Failure Counter

10

Short Circuit Counter

1

Open Circuit Counter

8

Thermal Derating Counter

0

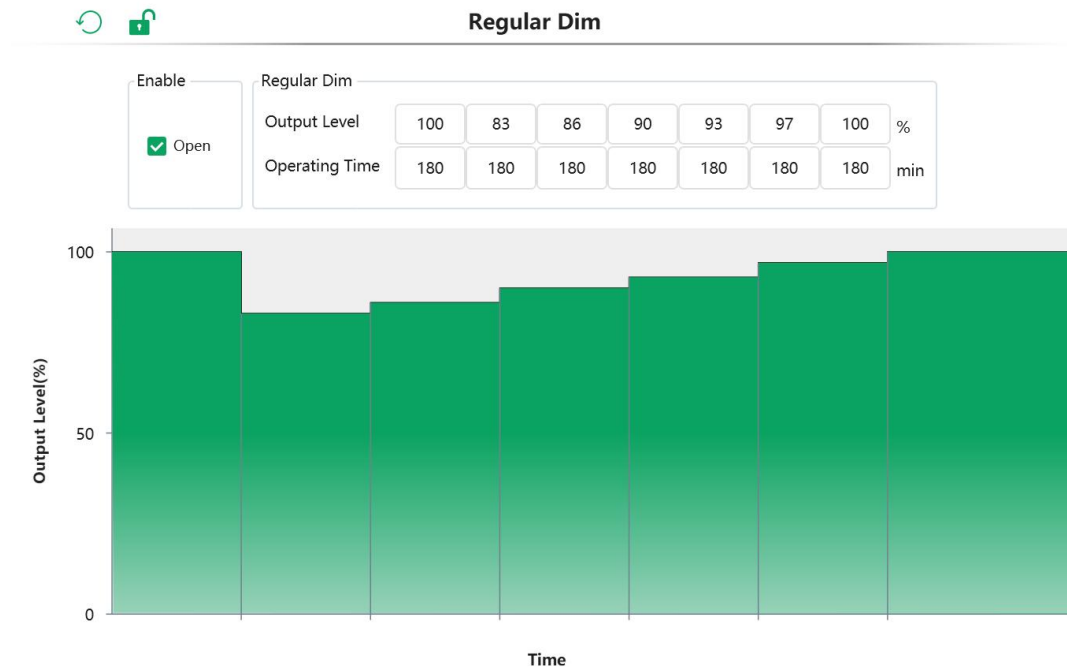
Thermal Shutdown Counter

0

Reset

5.2.16 Regular dim

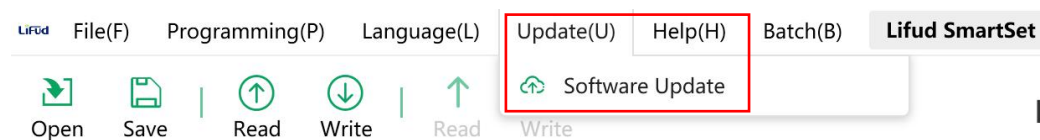
You can set a total of 7 periods of regular dim, and the maximum output level is 100%, while the maximum operating time is 180 minutes.



5.3 OTA software update

Remote software update is supported as follows.

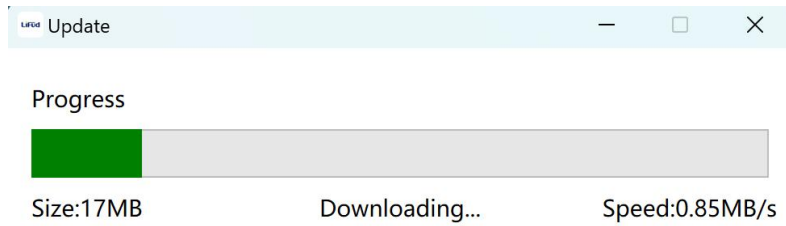
Click “Update (U)”, and select “Software Update”.



The update interface will be displayed if update is needed,



Click “Update” and the installation package will be downloaded automatically.



After the update is complete, the latest version will be displayed in the lower right corner of the interface.

