

SosenProgrammer Quick Guide V1.3

1. Programmer connects with LED driver

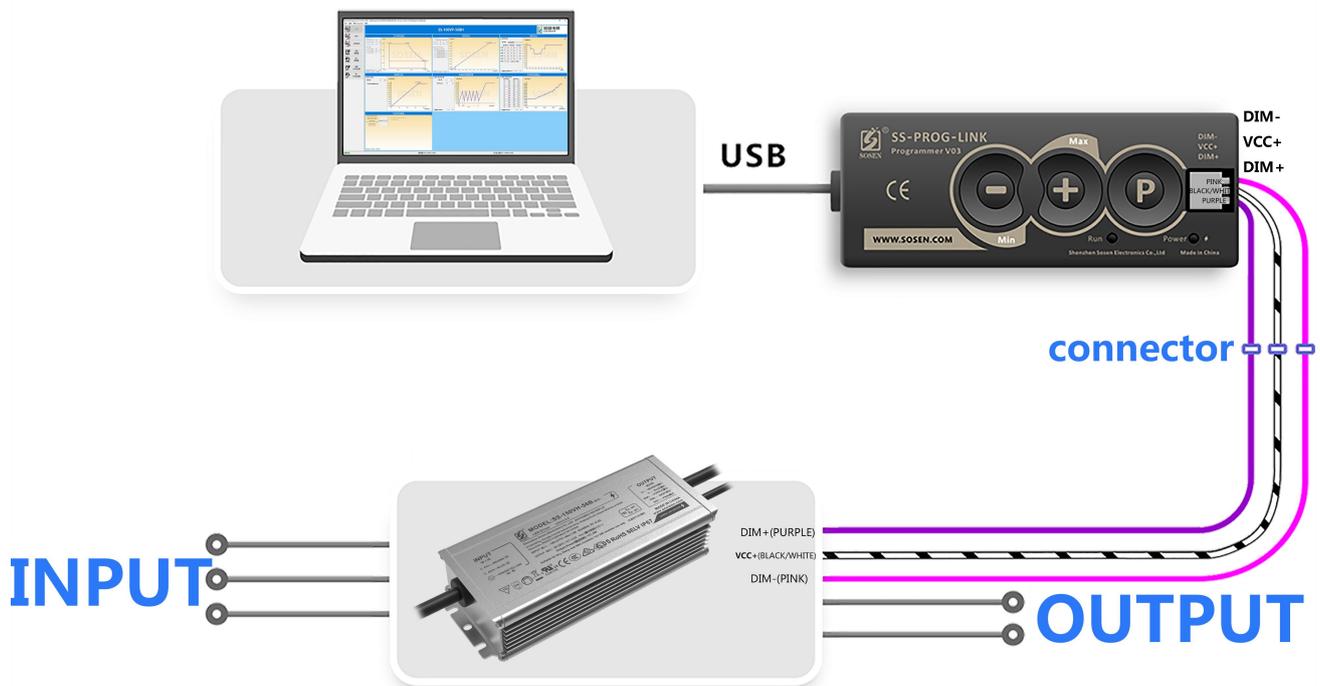


figure 1

The color of the dimming light may be changed. It is best to distinguish the line sequence according to the label of Programmer(SS-PROG-LINK) and the LED driver.

“Programmer : DIM-” is connected to “LED driver: DIM-” .

“Programmer : VCC+” is connected to “LED driver: VCC+” .

“Programmer : DIM+” is connected to “LED driver: DIM+” .

Connect Programmer to the USB port of the computer, and Programmer will identify the LED driver.

Sound of connection correct : "Di" sound.

Sound of connection error:



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Programmer failed to connect with LED driver: "DiDiDi~DiDiDi~ DiDiDi~DiDiDi~ DiDiDi ~..." three consecutive sounds.

Programmer does not match the version of the LED driver: "DiDiDiDi" four consecutive sounds.

Please confirm that the above steps are correct, and then perform the following operations.

2. Online programming

Online programming operation method: **Open " SosenProgrammer " -> Connect -> Read LED Driver / Load Default Values -> modify data -> Write LED Driver**

(1) Connect, Read LED Driver and Write LED Driver, as shown in Figure 3, at position ① in the block diagram.

When connecting, please confirm whether the port number is correct (the correct one is "USB Serial Port (COM x)"), if the USB Serial Port (COM x) does not appear, please install the USB driver first, as shown in Figure 2.

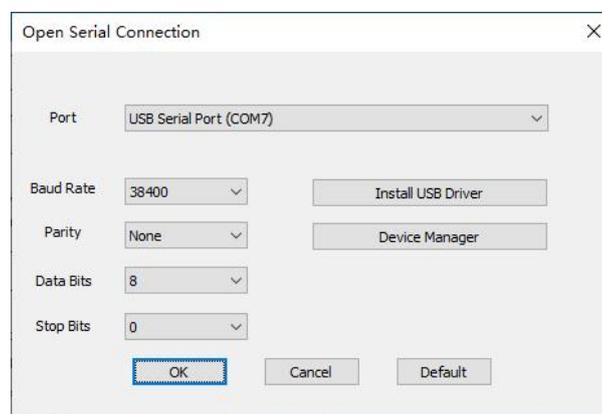


figure 2



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If you want to restore the default parameters of the model, you can click "Load Default Values", as shown in Figure 3, click the position ② of the block diagram with the left mouse button, and select the corresponding model.

(2) Modify the data, such as "Work Current Setting", "3in1 Dimming", "Timer Dimming", etc., as shown in Figure 3, at position ③ in the block diagram.

(3) When "Writing LED Driver", please make sure that the selected model is the same as the connected LED driver model (as shown in Figure 3, position ④ in the block diagram), otherwise Programmer will refuse to program and report an error.

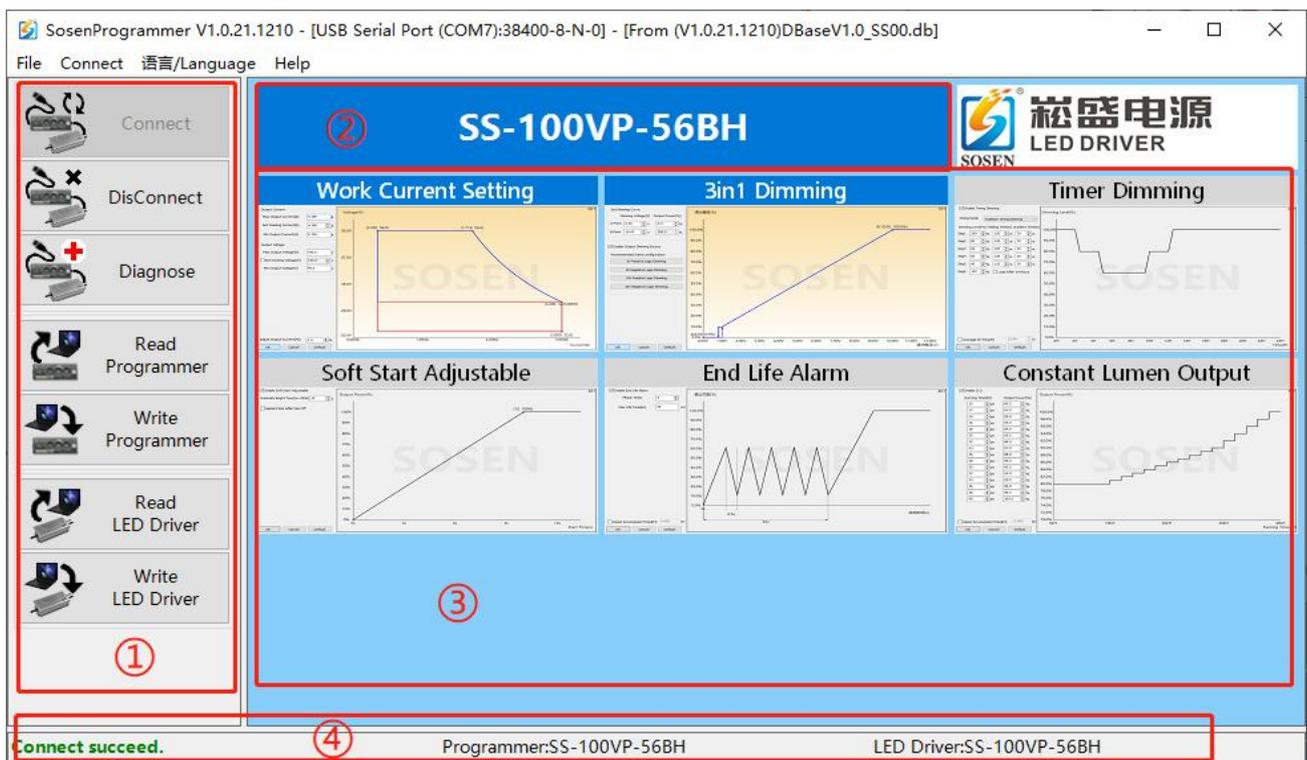


figure 3



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3. Offline programming

3.1 Make offline SS-PROG-LINK

Making offline programming method: **Open " SosenProgrammer " -> Connect -> Read LED Driver / Load Default Values -> modify data -> Write Programmer**

The first four steps are the same as online programming, and the last step is to write Programmer to prepare the offline Programmer of this model.

3.2 Batch programming

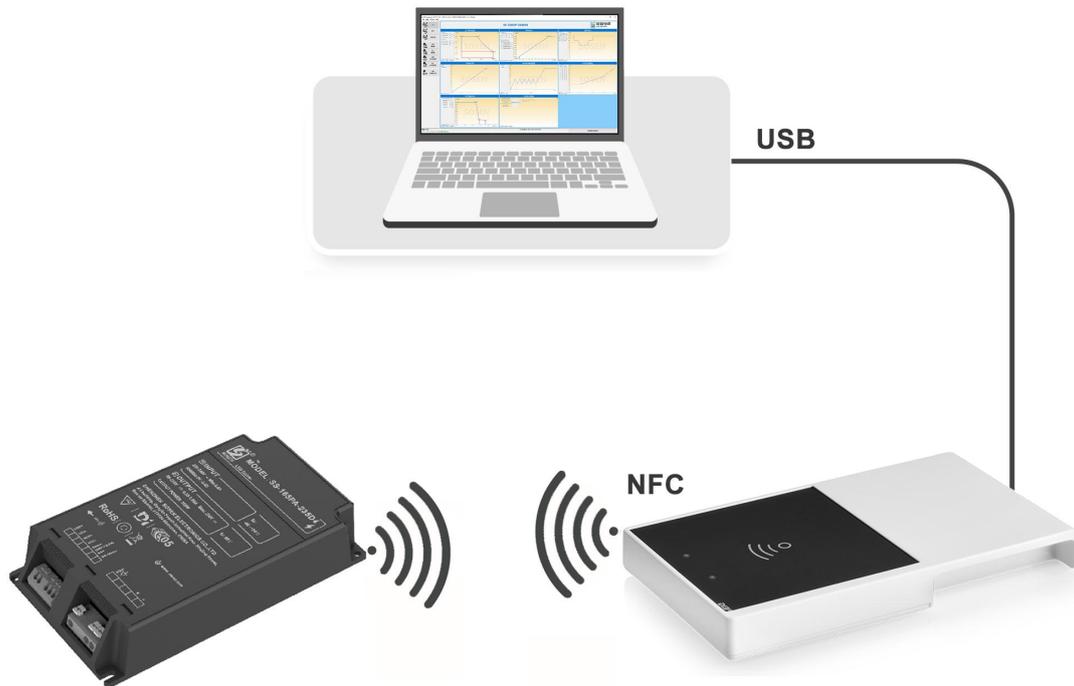
Offline programming method: **Made offline programmer -> USB power supply -> press the "P" key to program**

The model written in Programmer must be the same as the LED driver model to write successfully, otherwise Programmer will report an error. Check whether the models are the same, as shown in Figure 3, block diagram position ④).

Press the "P" key to program the LED driver offline. After the programming is completed, replace other LED drivers that are ready to be programmed and repeat this operation.

Note: The sound of successful programming is "DiDi".

4. Introduction to NFC mode LED driver programming



Schematic diagram of the NFC mode LED driver programming cable

4.1 Introduction to NFC reader

The models of NFC reader which SosenProgrammer software supported are as below:

1. FEIG ID CPR30+ reader.
2. FEIG ID ISC. PRH101-USB reader.



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FEIG ID CPR30+ reader



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FEIG ID ISC.PRH101-USB reader

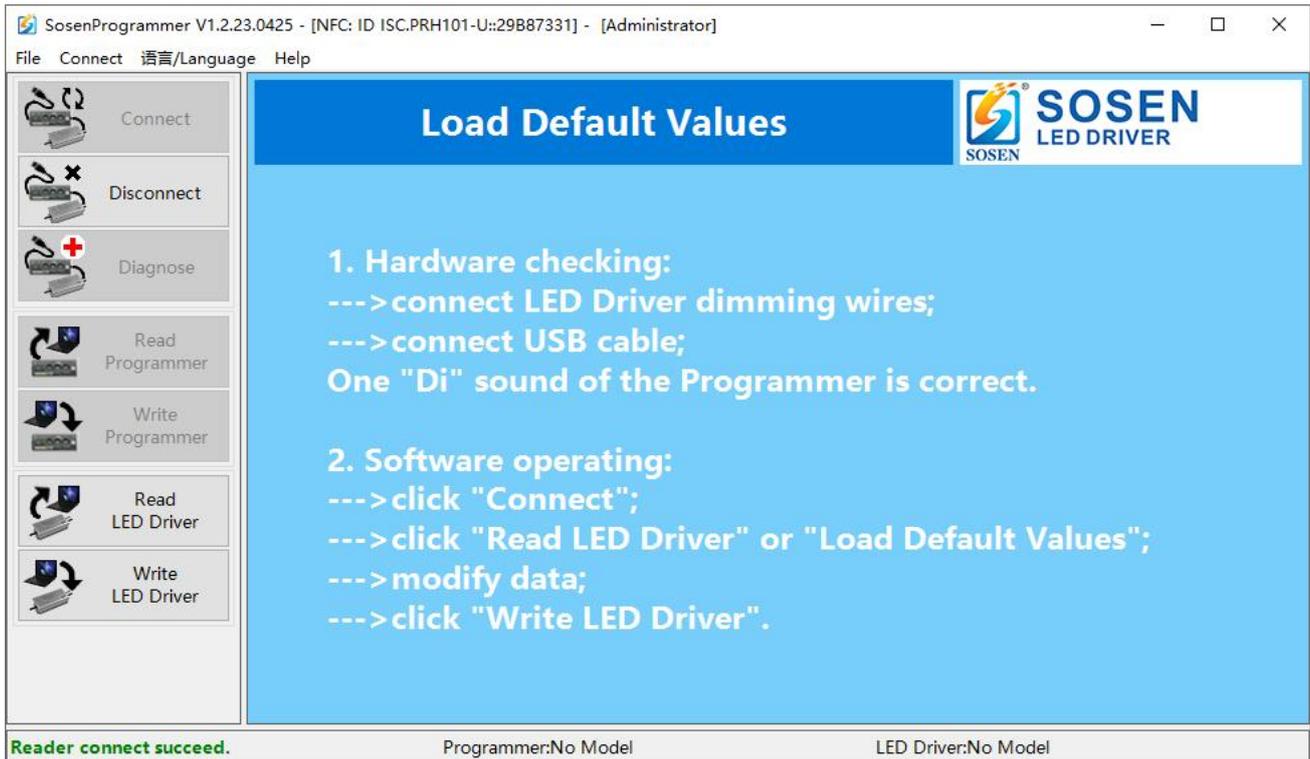
4.2 Connect the NFC reader with the LED driver

Connect the NFC reader to the USB port of the computer, click the "Connect" button of the software, and display "Reader connect succeed.", indicating that the reader connection is successful.

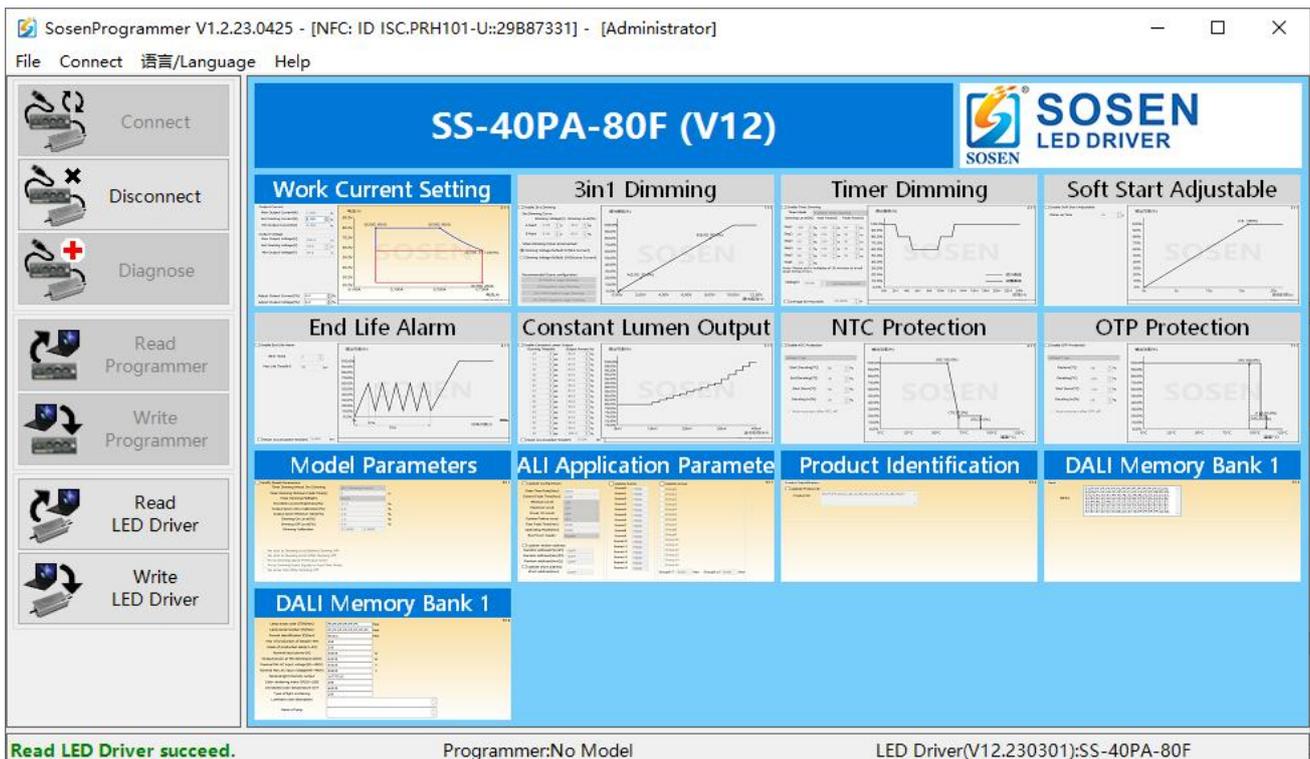


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Close the NFC area of the LED driver to the NFC reader near the NFC reader, click the software "Read LED Driver" button, and display "Read LED Driver succeed.", indicating that the LED driver reading is successful.



4.3 DALI Device NFC Programming Precautions

NFC programming is an operation that modifies product parameters through wireless signals. Due to the inherent limitations of wireless signals, the following precautions should be taken during programming:

1.Cardboard Programming

Induction region



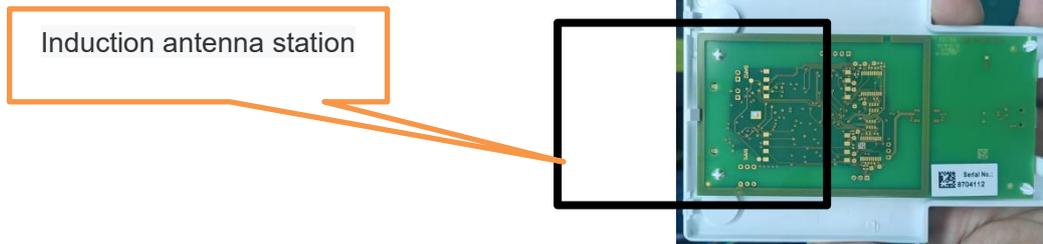
1)

For the card-type NFC programmer, the black panel part is the location of the antenna. As shown in the figure below, the antenna is located in the middle of the panel. Therefore, when programming, try to place the product's programming antenna in the center of the black panel and not too close to the edge, otherwise, it will exceed the range of the card antenna and cause read/write operation failure;



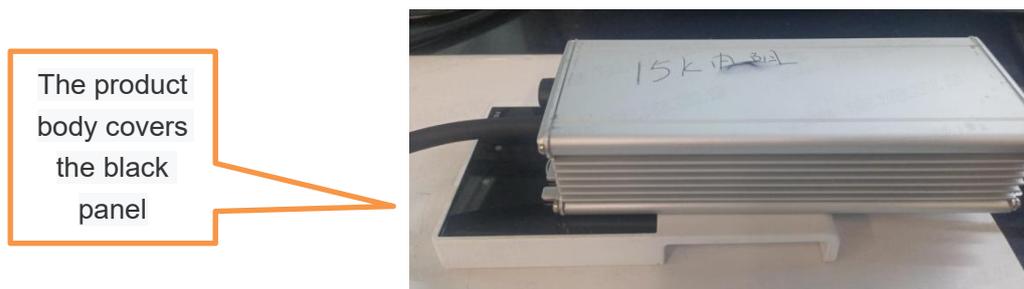
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2) The programmer should not be placed on a metal surface during programming, otherwise, the wireless signal will be shielded unilaterally, leading to read/write operation failure;

3) Since the GA-E model has a metal casing, the area of the product covering the antenna location during programming must not exceed 50%, otherwise, it will cause read/write operation failure due to signal shielding;



4) Due to overall size limitations, the NFC antenna of the GA-E DALI device is relatively compact, with a small induction area. The marketing department recommends placing the antenna near the top of the product for customers to perform burning operations from the top. Therefore, when programming, try to place the card programmer on the top of the product to minimize the impact of protruding metal parts on programming.



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The protruding metal part will block the wireless signal to some extent



Recommended Placement Method

2.Handheld NFC Programmer

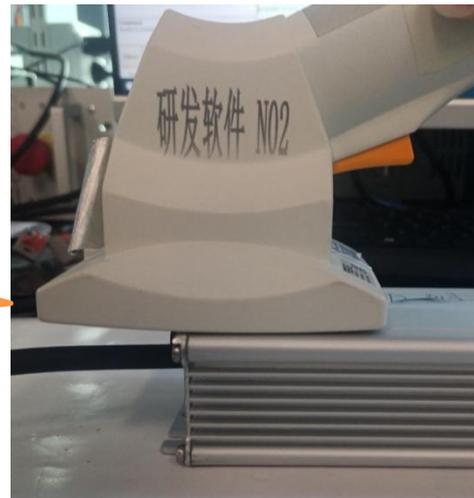
The precautions for the handheld programmer are similar to those for the card-type programmer. The contact area between the panel and the product during programming must not exceed 50% of the panel, and do not tightly adhere to the top of the product. Try to tilt or slightly lift the programmer during programming to maintain a certain distance between the panel and the top of the product:



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When burning, the contact area between the panel and the product shall not exceed the panel



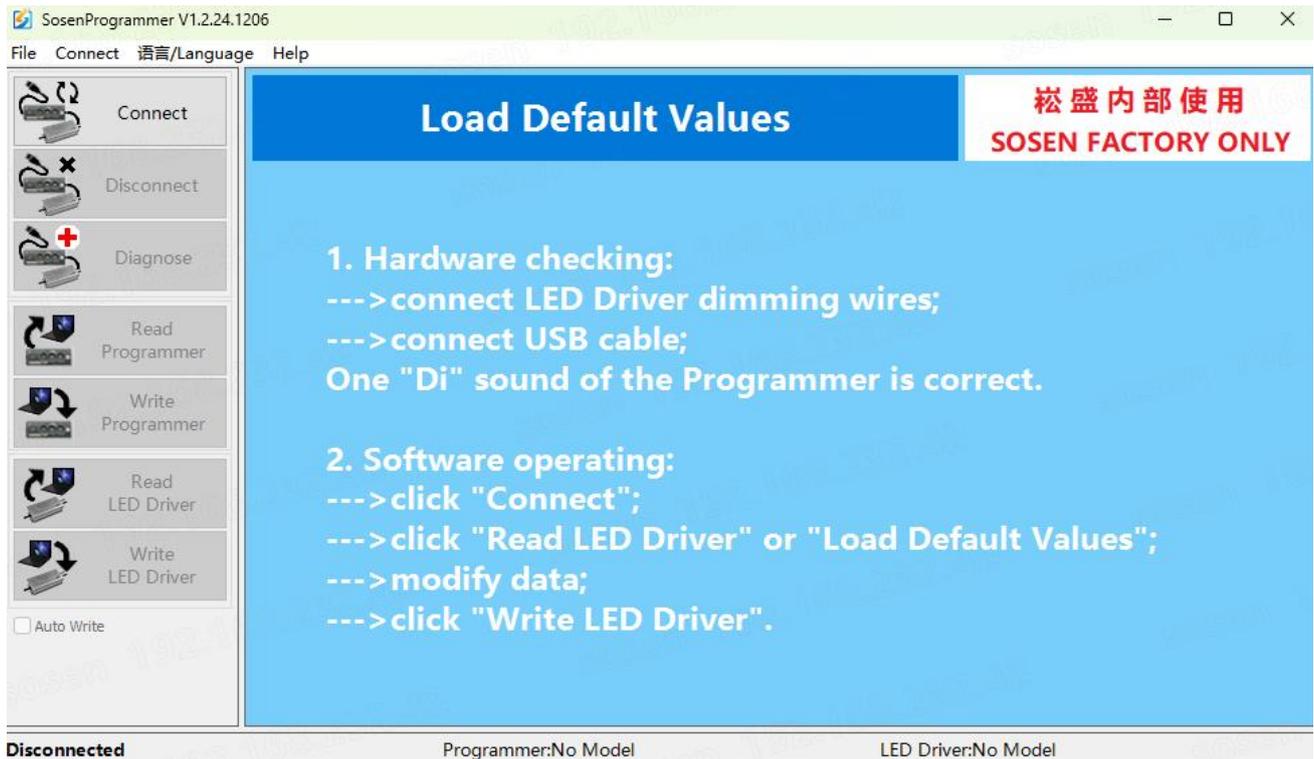
The recommended programming method is shown in the figure below





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Place the near-field communication area of the LED driver close to the near-field communication area of the NFC reader, click the software "Read LED Driver" button, and display "Read LED Driver Model Parameters Successfully" to indicate that the LED driver has been read successfully.



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SosenProgrammer V1.2.24.1206

File Connect 语言/Language Help

SS-50VP-54F
(Test)

崧盛内部使用
SOSEN FACTORY ONLY

Connect
Disconnect
Diagnose
Read Programmer
Write Programmer
Read LED Driver
Write LED Driver
 Auto Write

Work Current Setting
Work Current Setting graph showing current vs. time.

Timer Dimming
Timer Dimming graph showing dimming levels over time.

Soft Start Adjustable
Soft Start Adjustable graph showing current vs. time during soft start.

End Life Alarm
End Life Alarm graph showing a sawtooth waveform.

Constant Lumen Output
Constant Lumen Output graph showing lumen output vs. time.

OTP Protection
OTP Protection graph showing a sharp drop in current.

Switch Dimming
Switch Dimming table with columns for Dimming Level, Current, Voltage, Power, etc.

DALI Dimming
DALI Dimming table with columns for Dimming Level, Current, Voltage, Power, etc.

DALI Memory Bank 1
DALI Memory Bank 1 table with columns for Memory Bank, Dimming Level, Current, Voltage, Power, etc.

Conversion efficiency
Conversion efficiency table with columns for Input Voltage, Output Voltage, Input Current, Output Current, Efficiency, etc.

Product Identification
Product Identification table with columns for Product ID, Manufacturer, Model, etc.

Disconnected Programmer:No Model LED Driver:No Model