

# LF-SCS080C

## Lifud Programmer



### Product family features

- Configures the parameters and functions of the LED driver
- Used with Lifud SmartSet software
- Supports online and offline programming
- With status indicator and buzzer
- Powered by USB or dry batteries (5+0.5 VDC)



### Product family benefits

- Multiple parameters can be set: working mode, working frequency, current, power, output mode, emergency mode, dimming curve, CLO, corridorDIM, time-dimming, over-temperature protection, DALI parameters, etc.
- Applicable to Lifud's various types of LED driver: 0-10V dimming LED driver and DALI LED driver.

### Application

- Used with Lifud's LED drivers that are editable by programmer.

### Input data

| Power supply mode | USB             | AAA dry battery |
|-------------------|-----------------|-----------------|
| Input voltage     | 5±0.5VDC        | 3.3-5VDC        |
| Input current     | ≤30mA (no load) | ≤30mA (no load) |

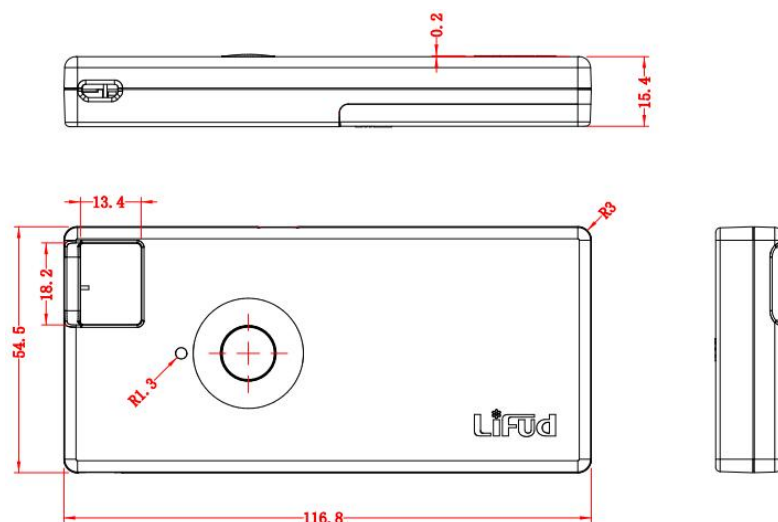
### Output data

|                          |                       |                       |
|--------------------------|-----------------------|-----------------------|
| Output voltage           | 14±0.5VDC (VCC, DIM+) | 14±0.5VDC (VCC, DIM+) |
| Initial start-up time    | <2S                   | <2S                   |
| On-load current          | <15mA                 | <15mA                 |
| No-load voltage          | ≤15.5V                | ≤15.5V                |
| Short circuit protection | Undamaged             | Undamaged             |

### Others

|                |                                                      |                           |
|----------------|------------------------------------------------------|---------------------------|
| IP rating      | IP20                                                 |                           |
| Warranty       | Motherboard: 3 years (Tc≤65℃)(not including battery) |                           |
| Operating time | Continuously burnable                                | Depending on battery life |

## Dimensions



|                                      |                              |
|--------------------------------------|------------------------------|
| Product weight                       | 87g                          |
| Cable cross-section, output side     | 0.75 ... 1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 7 ... 8mm                    |
| Wire preparation length, output side | 7 ... 8mm                    |
| Length                               | 116.8mm                      |
| Width                                | 54.5mm                       |
| Height                               | 15.4mm                       |

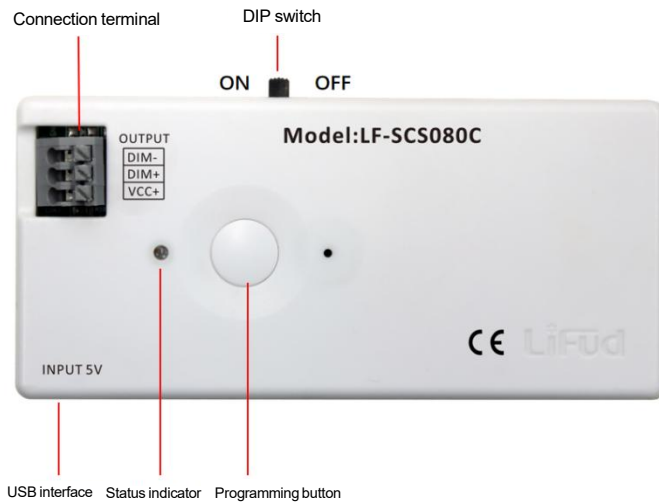
### Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | PC    |
| Casing color    | White |

### Temperature & operating conditions

| Power supply mode            | USB                                            | AAA dry battery             |
|------------------------------|------------------------------------------------|-----------------------------|
| Ambient temperature range    | -30°C -+50°C                                   | Refer to the battery manual |
| Temperature range at storage | -30°C -+80°C (6 months in Class I environment) | Refer to the battery manual |
| Humidity range at storage    | 20-75%RH (no condensation)                     | Refer to the battery manual |
| Humidity during operation    | 20-95%RH (no condensation)                     | Refer to the battery manual |
| Atmospheric pressure         | 86-106KPa                                      | Refer to the battery manual |

## Interface explanation



**Battery slot:** used to install batteries. 3 AAA batteries can be installed. Pull down to open the battery slot cover and push up to close the battery slot cover.

**USB interface:** power supply and communication, used with data line.

**Status indicator and buzzer:** used to prompt the programming status.

When powered on for the first time, the buzzer beeps once and the status indicator turns blue.

① Writing parameter: status indicator flashing red and green.

② Write successfully: status indicator turns green and buzzer beeps once.

③ Write failed: status indicator turns red and buzzer beeps twice. If the battery power is <3.3V, burning will fail.

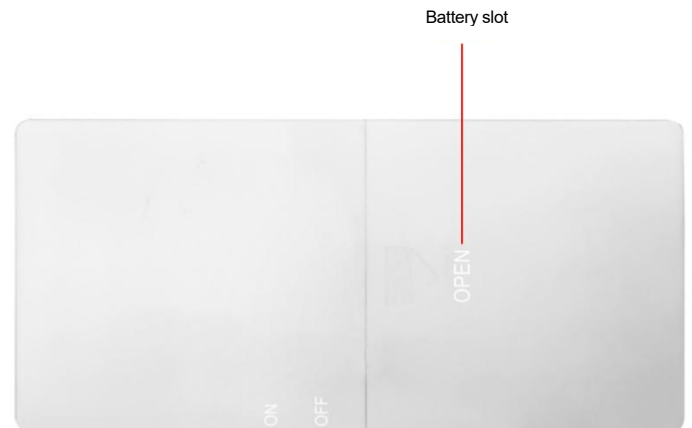
**Programming button:** used for offline programming. Click the button, and the parameters will be automatically written to the LED driver.

**Connection terminal:** used to connect the LED driver.

**DIP switch:** used to turn the battery power on/off.

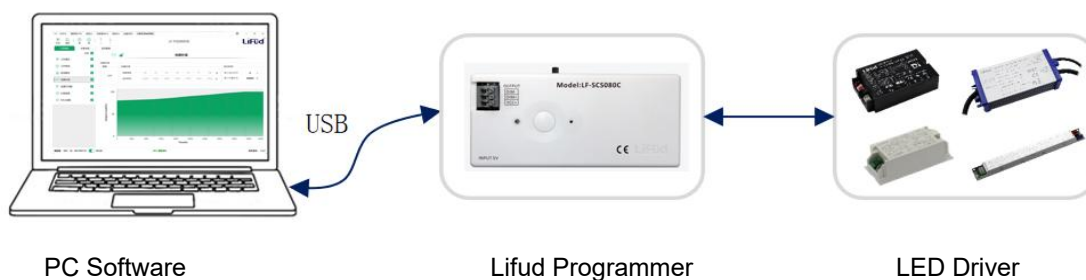
① ON: turn on the battery power.

② OFF: turn off the battery power.



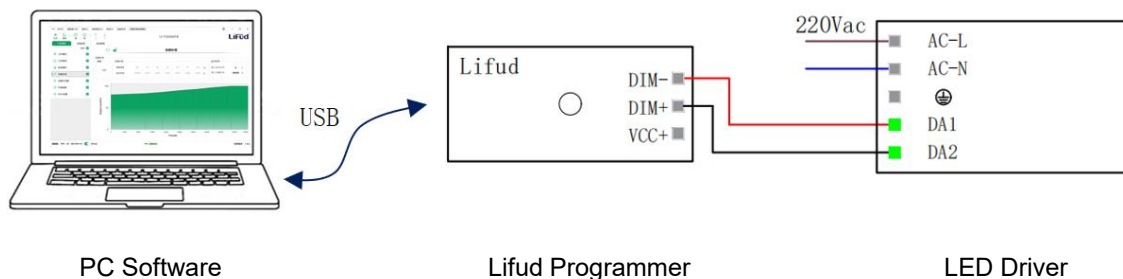
## Lifud programmer wiring

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



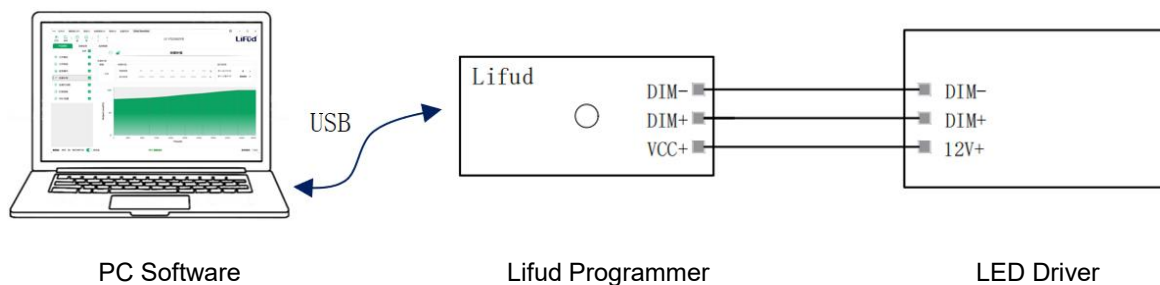
All LED drivers of our company that support programmer programming can use the LF-SCS080C programmer. Due to different product types, the wiring from the programmer to the LED driver may vary. The wiring method for each model should be based on the wiring method stated in the product specification.

## DALI series wiring



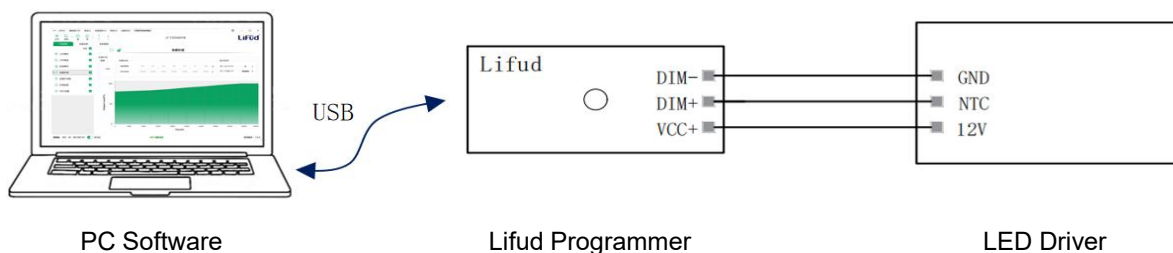
Note: When using the Lifud programmer to edit the parameters of DALI LED driver, the LED driver must be connected to AC, so that it can read and write normally. When editing the D4i LED driver, the DALI bus power supply function also needs to be turned off.

## High-power series wiring



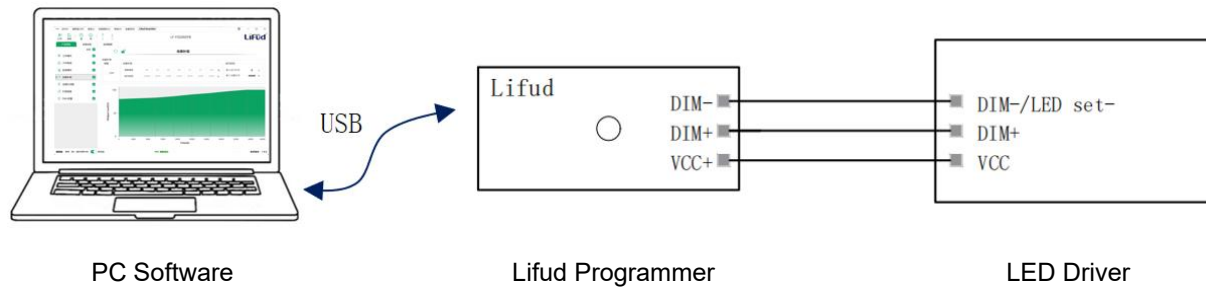
Note: When using the Lifud programmer to edit the parameters of high-power 0-10V LED driver, the LED driver can read and write normally without being connected to AC.

## GMD-YN series wiring



Note: When using the Lifud programmer to edit the parameters of GMD-YN series LED driver, the LED driver can read and write normally without being connected to AC.

### ACD-C series wiring



Note: When using the Lifud programmer to edit the parameters of ACD-C series LED driver, the LED driver can read and write normally without being connected to AC.

### Test equipment & condition

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test equipment</b> | AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc. |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C and humidity of 50%.

### Additional information

1. The final interpretation of the above parameters belongs to Lifud.

### Transportation & storage

Suitable transportation means: vehicles, boats and aeroplanes.

In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact on LED driver as much as possible.

The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

### Cautions

Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.

Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.

Man-made damage is beyond the scope of Lifud warranty service.

### Disclaimer

Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

Lifud Technology Co., Ltd. reserves the right to interpret any content of this specification.