

LTECH

LT-NFC
NFC Programmer



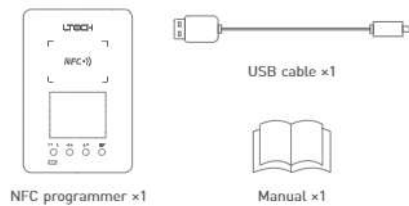
Manual

www.ltech-led.com

Product Introduction

- Change the driver parameters on the NFC programmer and the modified parameters can be written to batch drivers to improve project efficiency;
- Use your NFC-capable phone to read the driver parameters and change them depending on the needs. Then hold your phone close to the drivers to write the advanced parameters to the drivers;
- Connect your NFC-capable phone to the NFC programmer and use your phone to read the driver parameters, edit the solution and save it to the NFC programmer. So the advanced parameters can be written to batch drivers;
- Upgrade the NFC programmer firmware with the APP after the NFC programmer is connected to your phone via Bluetooth.

Package Contents

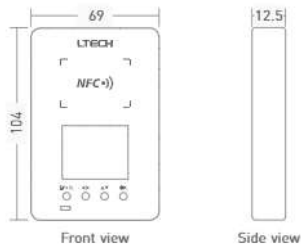


Technical Specs

Product Name	NFC Programmer
Model	LT-NFC
Communication Mode	Bluetooth, NFC
Working Voltage	5Vdc
Working Current	500mA
Working Temperature	0°C~40°C
Net Weight	55g
Dimensions(LxWxH)	69×104×12.5mm
Package Size(LxWxH)	95×106×25mm

Dimensions

Unit: mm



Screen Display

Buttons



Short press "BACK" button to return to the previous page
Long press "BACK" button for 2s to return to the home page
Short press "<=>" button to select parameter
Short press "<v>" button to modify parameter
Short press "OK" button to confirm or save the setting

Home page



NFC driver settings:
NFC programmer reads the driver and users can change parameters directly on the programmer
APP solutions:
View and set up more advanced parameters using the APP
BLE connection:
Support firmware upgrade using the APP

Main Interface



Lout: Output current / Voltage
Address: Device address
Fade time: Power-on fade time
█ : Enable / Disable

NFC Programmer Instructions

Change the driver parameters on the NFC programmer and the modified parameters can be written to batch drivers.

- * Before you start to set driver parameters on the programmer, please power off the programmer first.



1. Select functionality mode

Power the NFC programmer using the USB cable, then press "▲▼" button to select "NFC Driver Settings" and confirm this option by pressing "OK" button.



2. Read LED driver

Keep the sensing area of the programmer close to the NFC logo on the driver to read driver parameters.

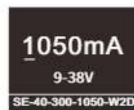


3. Change driver parameters (such as: Output current/address)

3.1 Set output current

In the programmer's main interface, press "▲▼" button to select "Iout" and press "OK" button to go to the editing interface. Then press "▲▼" to modify the parameter value and press "◀▶" to select the next digit and edit. When the parameter modification is done, press "OK" button to save your change.

Note: If the current value you set is out of range, the programmer will make beep sounds and the indicator will flash.



3.2 Set address

Press "▲▼" button to select "Address" and press "OK" button to go to the editing interface. Then press "▲▼" to modify the parameter value and press "◀▶" to select the next digit and edit. When the parameter modification is done (Address range: 0-63, increment range of address: 0-9), press "OK" button to save your change.

Note: If the address is 05 and the increment number of address is 2, the next address will be 07, 09...



4. Write parameters to LED drivers

In the programmer's main interface, press "▲▼" button to select [» Ready to Write] , then press "OK" button and the screen now shows [Ready to Write] . Next, keep the sensing area of the programmer close to the NFC logo on the driver. When the screen displays "Write succeeded", it means the parameters have been successfully modified.



- * In the main interface, confirm whether to write parameters to the LED driver by pressing "◀▶" button to enable/disable the parameters. When parameters are disable, they won't be written to the driver.



Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation [According to performance requirements, you need to use a NFC-capable Android phone, or an iPhone 8 and later that are compatible with iOS 13 or higher].



* Before you start to set driver parameters on the programmer, please power off the programmer first.

• Read/Write LED driver

Use your NFC-capable phone to read the driver parameters and modify them depending on your need. Then hold your phone close to the driver again, so the modified parameters can be easily written to the driver.

1. Read LED driver

On the APP home page, click [Read/Write LED driver], then keep your phone close to the NFC logo on the driver to read the driver parameters.



2. Edit parameters

Click [Parameters] to edit output current, address, dimming interface and the advanced parameters like advanced DALI template and more [Editable parameters might vary depending on the types of drivers].



3. Write parameters to LED driver

After parameter settings are done, click [Write] in the upper right corner and keep your phone close to the NFC logo on the driver. When the screen displays "Write succeeded", it means the driver parameters have been successfully modified.

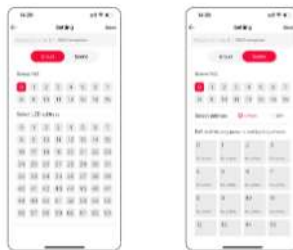


Advanced DALI template

Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them to the advanced template to achieve lighting programming

1. Create advanced template

On the APP home page, tap [⊕] icon in the upper right corner and tap [Advanced local DALI template] - [Create template] to select LED light address and assign the light to a group; Or you can select light group address/LED light address to create a scene. Long press the scene NO. to edit the lighting effects. When settings are completed, tap [Save] in the upper right corner.



2. Apply advanced template

In the "Parameter settings" interface, tap [Advanced DALI template] to select the created template and write it to the driver by tapping [Confirm].



- **Read/Write on NFC programmer**

Connect your NFC-capable phone to the NFC programmer and use your phone to read the driver parameters, edit the solution and save it to the NFC programmer. So the advanced parameters can be written to batch drivers.

1. Connect to NFC programmer

Turn on Bluetooth on your phone and power the NFC programmer using the USB cable. Press "▲▼" button on the programmer to switch to "BLE connection" then press "OK" button to put it into BLE connection state. On the APP home page, tap [Read/Write on NFC programmer] - [Next] to search and connect to the programmer based on the Mac address.



2. Read LED driver

In the interface of programmer information, choose any of the solutions to edit, then hold your phone close to the NFC logo on the driver to read driver parameters.



3. Edit parameters

Click [Parameters] to edit output current, address, dimming interface and the advanced parameters like advanced DAL template and more (Editable parameters might vary depending on the types of drivers).



4. Write parameters to LED driver

When the programmer screen displays "Sync SOL1 succeeded", press the "BACK" button to return to the home page and press the "▲▼" button to switch to "APP solutions". Then press "OK" button to go to the solution interface and press "◀▶" button to select the same solution as it is in the APP, then press "OK" button to save it. Keep the sensing area of the programmer close to the NFC logos on the drivers, so the advanced solution can be written to the same model drivers in batch.

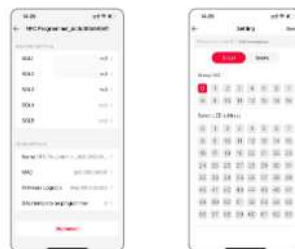


Advanced DALI template

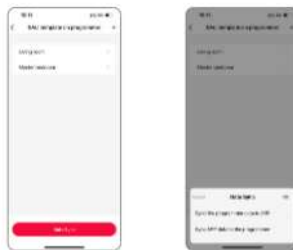
Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them to the advanced template to achieve lighting programming.

1. Create advanced template

In the interface of programmer information, tap [DALI template on programmer] - [Create template] to select LED light address and assign the light to a group; Or you can select light group address/ LED light address to create a scene. Long press the scene NO. to edit the lighting effects . When settings are completed, tap [Save] in the upper right corner.



* In the interface of "DALI template on programmer", tap [Data sync] to sync programmer data to the APP, and APP data to the programmer as well.



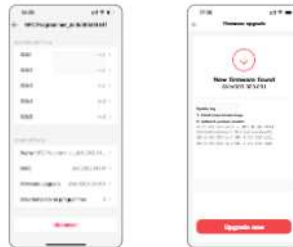
2. Apply advanced template

In the "Parameter settings" interface , tap **[Advanced DALI template]** to select the created template and write it to the driver by tapping **[OK]** .



Firmware upgrade

1. Turn on Bluetooth on your phone and power the NFC programmer using the USB cable. Press "▲▼" button on the programmer to switch to "BLE connection" then press "OK" button to put it into BLE connection state. On the APP home page, tap [Read/Write on NFC programmer] - [Next] to search and connect the programmer based on the Mac address.
2. In the interface of programmer information, tap [Firmware version] to check whether a new firmware version is available.
3. If you need to upgrade the firmware version, tap [Upgrade now] and wait for a process to complete the upgrade.



Attentions

- This product is non-waterproof. Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.

- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

Warranty Agreement

Warranty periods from the date of delivery: 5 years.

Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
 - Any artificial damage caused by high voltage, overload, or improper operations.
 - Products with severe physical damage.
 - Damage caused by natural disasters and force majeure.
 - Warranty labels and barcodes have been damaged.
 - No any contract signed by LTECH.
1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.