User Manual

GVS DALI Driver NFC Tool_V1.1



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Chapter 1 Summary

GVS DALI Driver NFC Tool is used to read the parameter information of DALI DT6 constant current dimming driver or DALI DT8 constant current Dimming driver, TW and it can also be used to configure the parameters of the driver, such as: Max/Min level, Fade time/rate, Short address/Groups, Power on level/CCT, System failure level/CCT, Scenes, Target current, Default CCT coolest/warmest, CCT step, Physical CCT coolest/warmest, Dimming curve, Min current compensation/brightness calibration, Constant lumen output, DALI bus power supply status.

This manual will provide a detailed introduction to the operation process of the “GVS DALI Driver NFC Tool” APP (hereinafter referred to as “APP”) .

Chapter 2 Download and Install

1. APP Name

   GVS DALI Driver NFC Tool

2. Publish

   IOS: App Store

   Android: Google Play

   Note: APP update without a fixed schedule, and the UI pages are based on the latest version.

3. Operating System:

   IOS Version 13.0 or higher

   Android Version 6.0 or higher

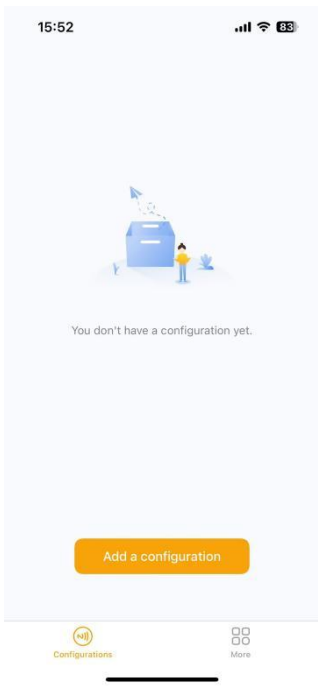
Chapter 3 Operation

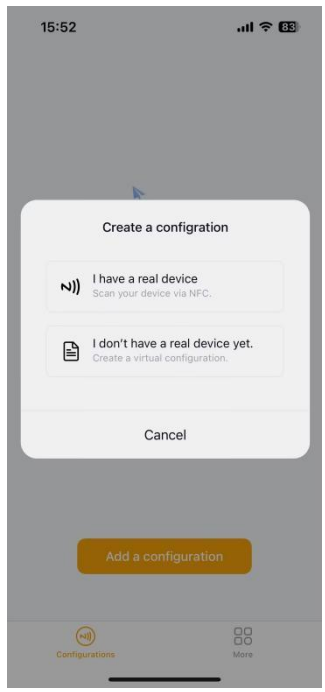
Step1: Download and open the APP, Click “Add a Configuration” → Select “I have a real device” →

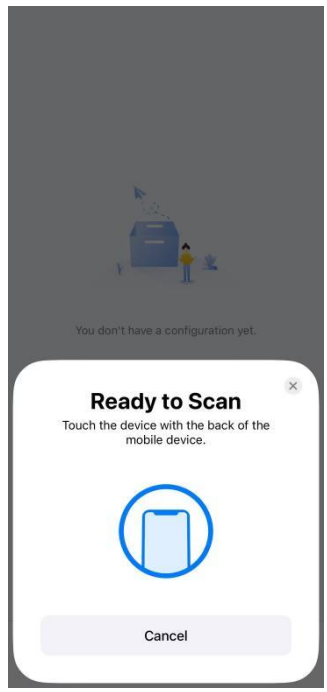
Place the device close to the NFC sensing area on the back of the phone.

Note:

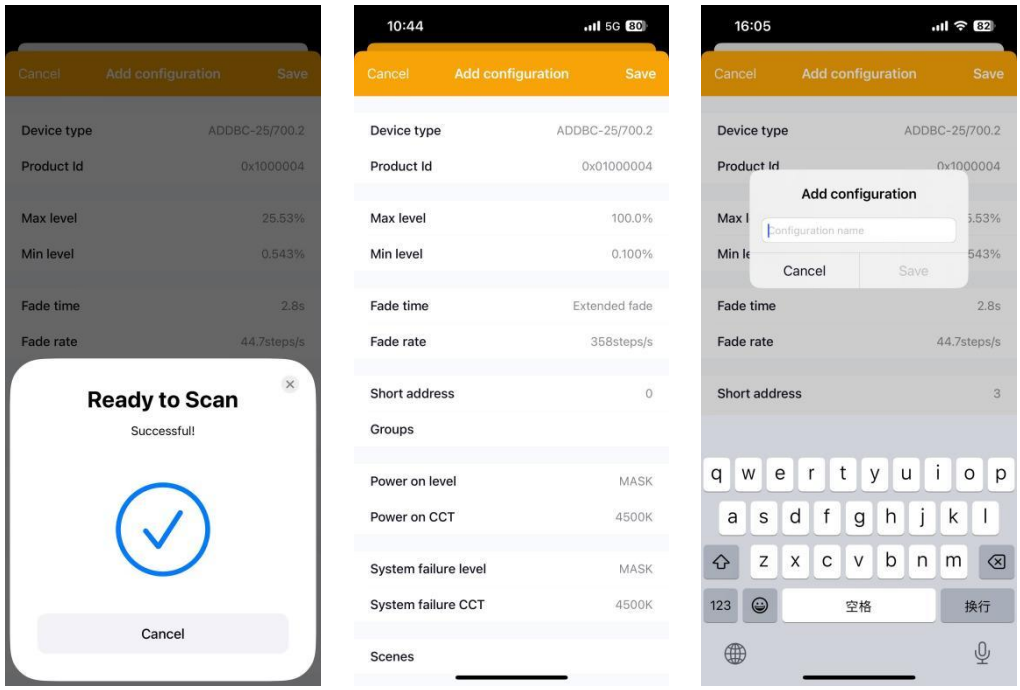
1. **Do wiring according to the wiring diagram.**
2. **Please make sure that you have enabled NFC function with your mobile phone/tablet.**
3. **Please make sure that the “NFC position” is matched.**
4. **Please do not power on the device before setting, otherwise the configuration is invalid. Power on the device after the parameters have been set and synchronized to the device.**
5. **If you can’t download “GVS DALI Driver NFC Tool”. Please contact with us.**







Step 2: Add the device successfully→ Click “Save” → Name the added device.

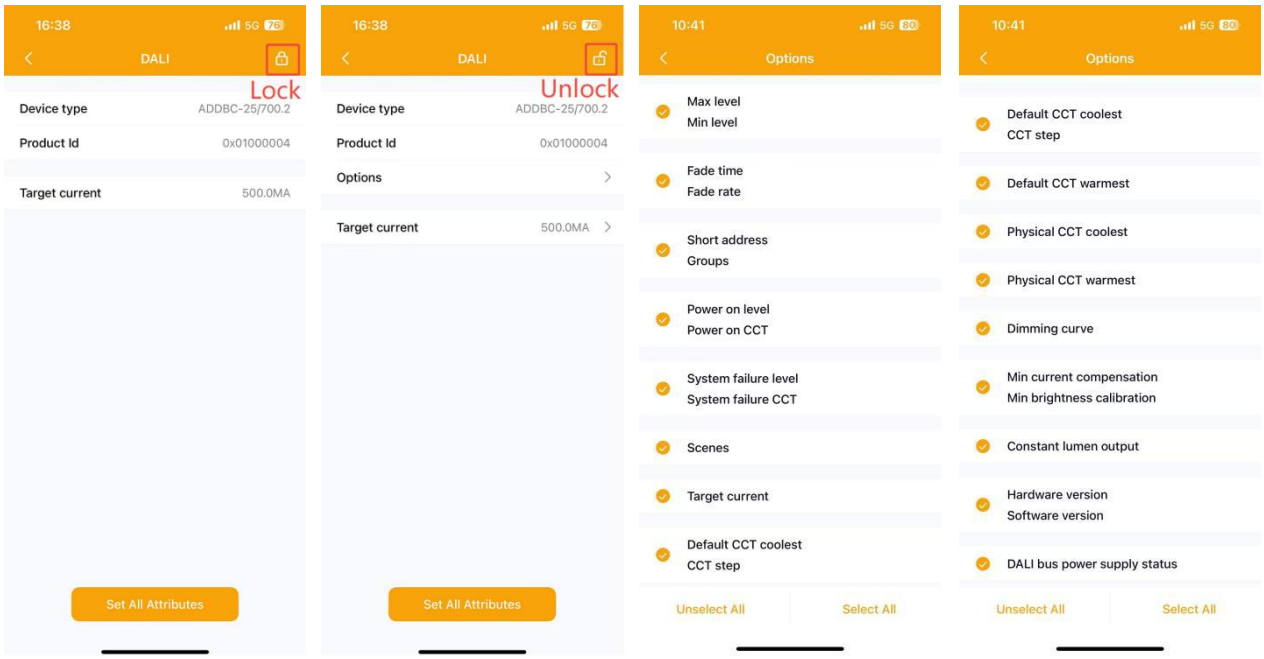


Step 3: Enter parameters configuring page and unlock device. Optional parameter configuration: Max/Min level, Fade time/rate, Short address/Groups, Power on level/CCT, System failure level/CCT, Scenes, Target current, Default CCT coolest/CCT step, Default CCT warmest, Physical CCT coolest, Physical CCT warmest, Dimming curve, Min current compensation/brightness calibration, Constant lumen output, Hardware/Software version, DALI bus power supply status.

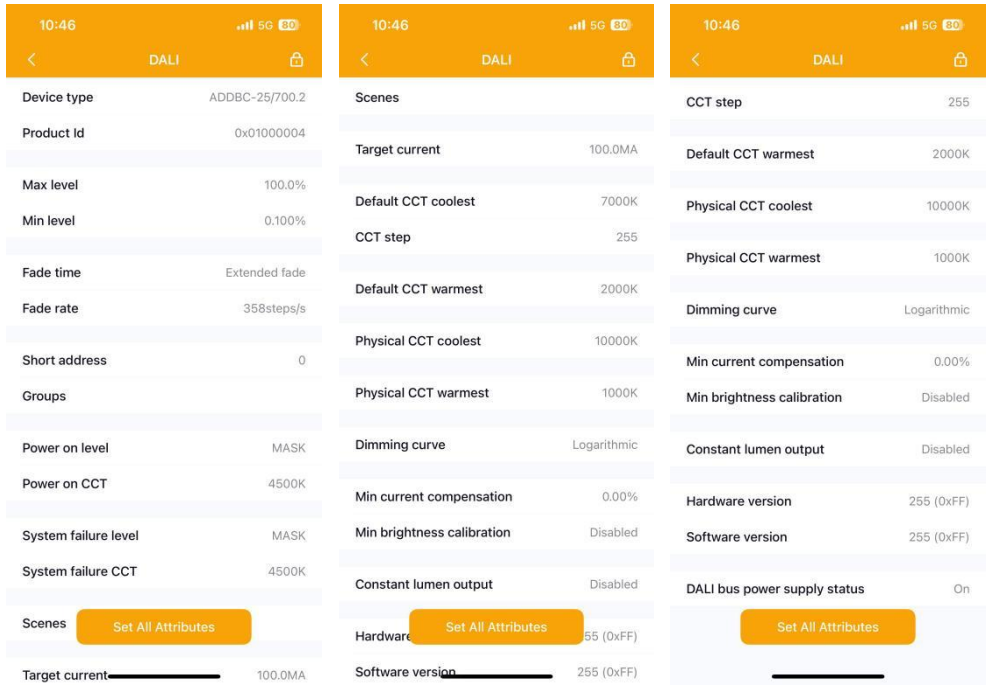
Note:

1.You have to unlock the device then do some settings.

2.Only when the corresponding function is selected, the function interface will be display.



Step 4: The following is the parameter setting interface, you can choose the setting based on your requirements.



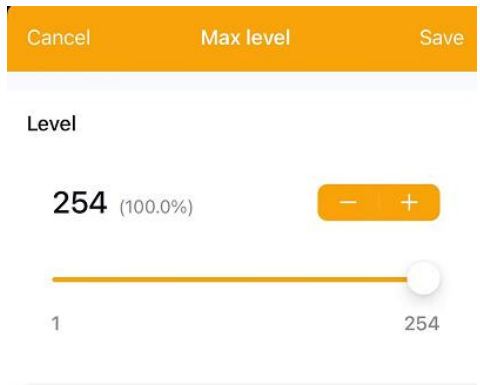
Device Type: Displays the device model.

Product Id: Display product number.

Options: Click to enter the configuration page and select the desired configuration item. Options: Max/Min level, Fade time/rate, Short address/Groups, Power on level/CCT, System failure level/CCT, Scenes, Target current, Default CCT coolest/CCT step, Default CCT warmest, Physical CCT coolest, Physical CCT warmest, Dimming curve, Min current compensation/brightness calibration, Constant lumen output, Hardware/Software version, DALI bus power supply status.

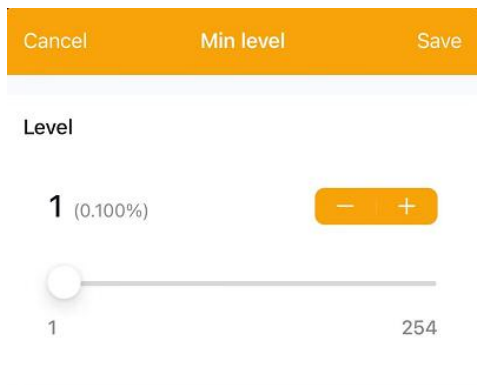
Max Level: The maximum brightness output value of the driver, default 254 (100%).

Options: **1... .254 (0.100%~100%)**



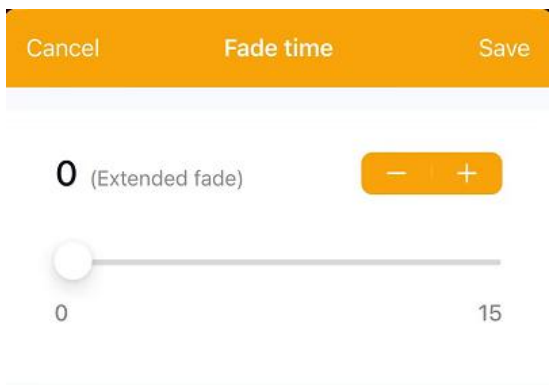
Min Level: The minimum brightness output value of the driver, default 1 (0.100%).

Options: **1... .254 (0.100%~100%)**



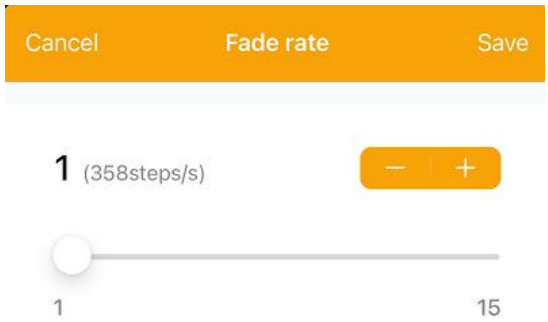
Fade time: The time for the lamp to adjust from the current brightness to the target brightness, default 0(extended fade).

Options:**0...15(0~90.5s)**



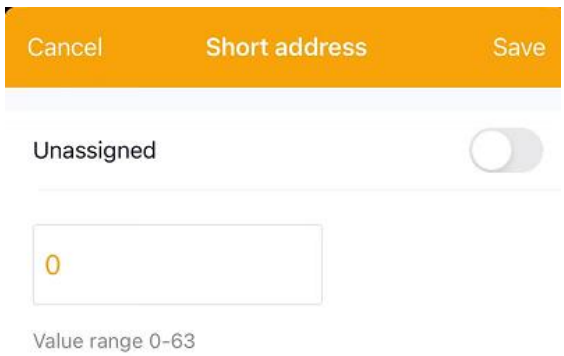
Fade rate: Speed of brightness change, default 1(358steps/s)

Options: **0...15(358steps/s~2.8steps/s)**



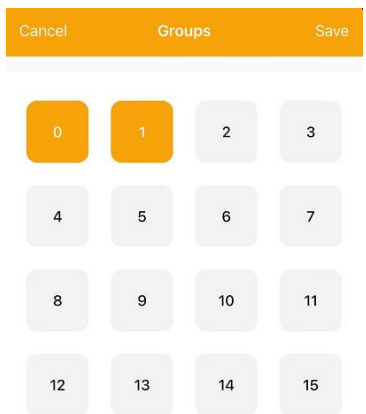
Short address: The DALI address, that is, the unique identifier (0~63) of each driver in the DALI system, is used to individually control a lamp.

Options: **0...63**



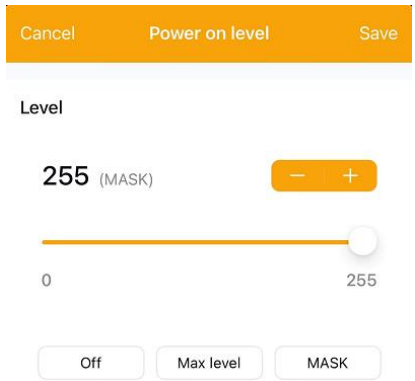
Groups: It is used to assign multiple drivers to the same group address (0~15), which is convenient to control the same group of lamps at the same time.

Options: **0...15**



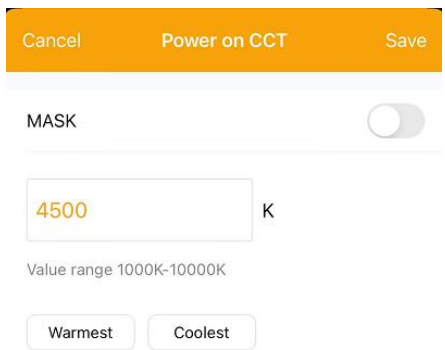
Power on level: The default brightness value for the lamp after power on, default 255(MASK=Recovery as power failure).

Options: **0...255(0.000%~MASK, 0=0.000%=off, 254=100%=max level, 255=MASK=Recovery as power failure)**



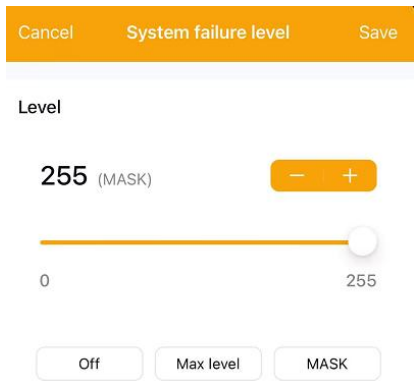
Power on CCT: The default colour temperature value for the lamp after power on, default 4500K.

Options: **MASK(Recovery as power failure) or customized value1000K...10000K (1000K=warmest, 10000K=coolest)**



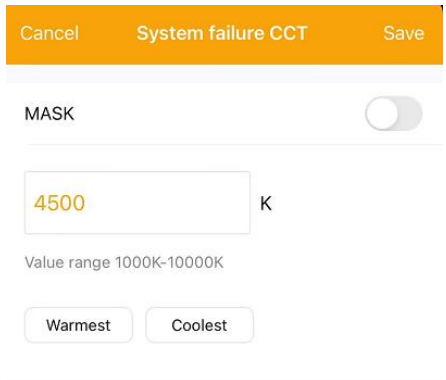
System failure level: Default brightness value of the lamp when the DALI system fails, default 255(MASK=Recovery as power failure).

Options: **0...255(0.000%~MASK，0=0.000%=off，254=100%=max level, 255=MASK=Recovery as power failure)**

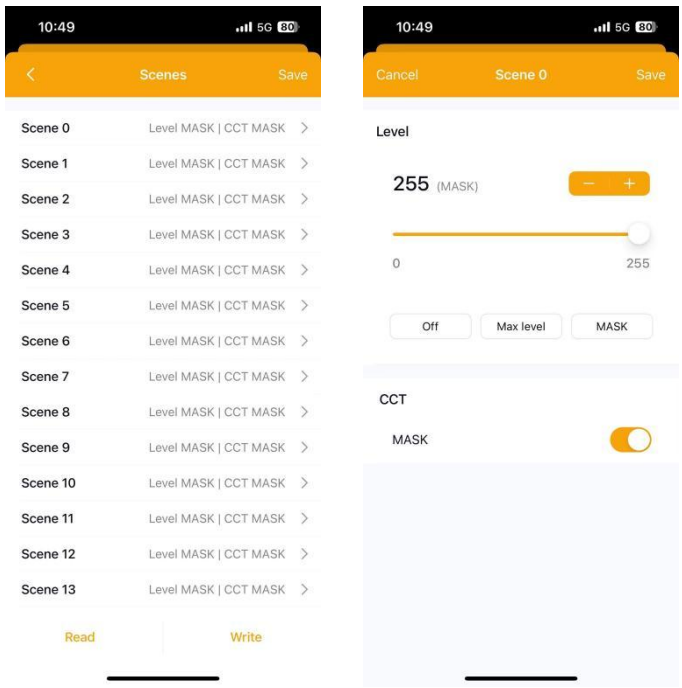


System failure CCT: Default colour temperature value of the lamp when the DALI system fails, default 4500K.

Options: **MASK(Recovery as power failure) or customized value1000K...10000K (1000K=warmest, 10000K=coolest)**



Scenes: Click to preset the brightness and colour temperature of each scene, with a total of 16 scenes available for configuration. Users can quickly switch the lighting status by calling the scene number.



Target current: Target current value of the drive output to the lamp, default 1000(100MA).

Options: **1000...7000(100...700MA)/2500...7000(250~700MA)/3500...10500(350...1050MA), displayed according to device type**



Default CCT coolest: Maximum colour temperature value of lamp output, default 7000K.

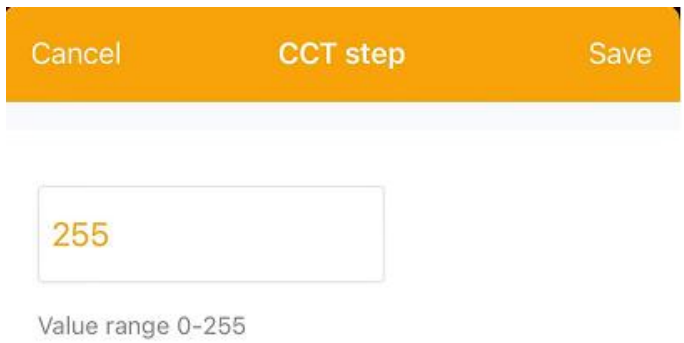
Options: **MASK(Recovery as power failure) or customized value 1000K...10000K**

Note: The default CCT coolest must always be less than the physical CCT coolest, otherwise, the output will be according to the physical CCT coolest.



CCT step: Step value for colour temperature adjustment, default 255.

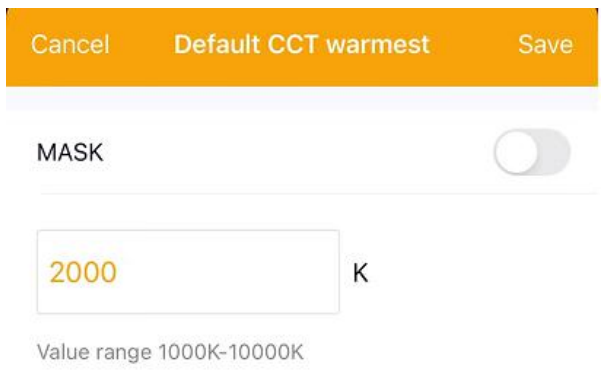
Options: **0...255**



Default CCT warmest: Minimum colour temperature value for lamp output, default 2000K.

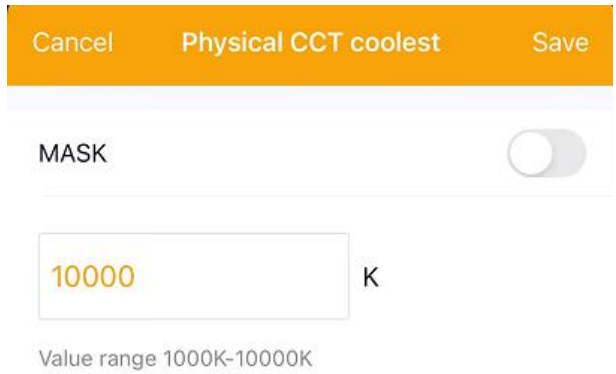
Note: The default CCT warmest must always be greater than the physical CCT warmest, otherwise, the output will be according to the physical CCT warmest.

Options: **MASK or customized value 1000K...10000K**



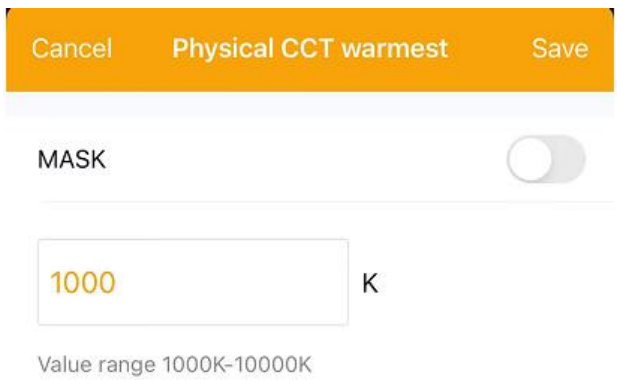
Physical CCT coolest: The maximum physical colour temperature that can be executed by the driver, which refers to the maximum colour temperature value of the lamps itself, typically the colour temperature of cool white LEDs, default 10000K.

Options: **MASK(Recovery as power failure) or customized value 1000K...10000K**



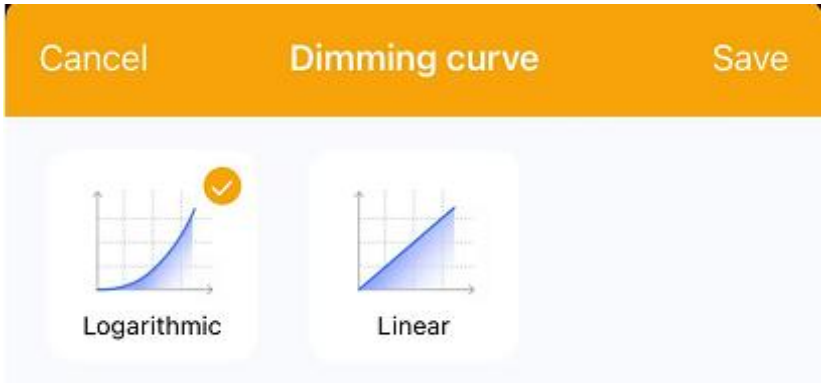
Physical CCT warmest: The minimum physical colour temperature that can be executed by the driver, which refers to the minimum colour temperature value of the lamps itself, typically the colour temperature of warm white LEDs, default 1000K.

Options: **MASK(Recovery as power failure) or customized value 1000K...10000K**



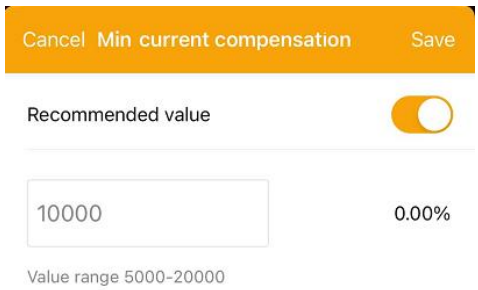
Dimming curve: Dimming curves for drives, default logarithmic.

Options: **Logarithmic, Linear**

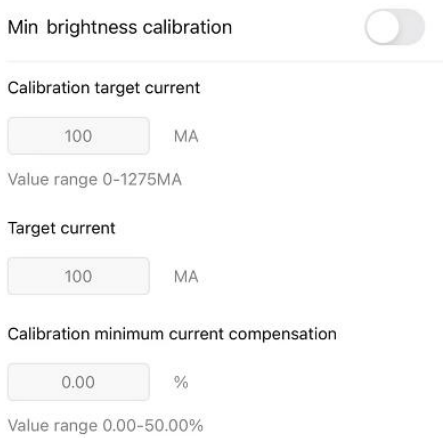


Min current compensation: Used to ensure that the lamp can work stably at low brightness and avoid flickering or turning off. The default is the recommended value of 10000 (0.00%).

Options: **Recommended value or customized value 5000...20000(-50.00%~100.00%)**



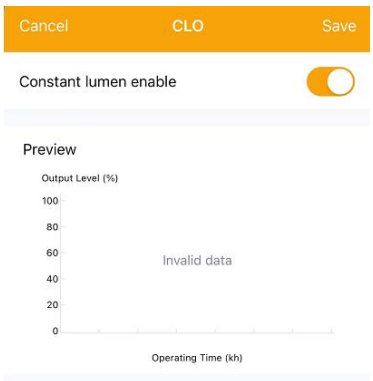
Min brightness calibration: Used to adjust the minimum brightness level of the lamp to match actual requirements. Click On/Off drive minimum brightness calibration.

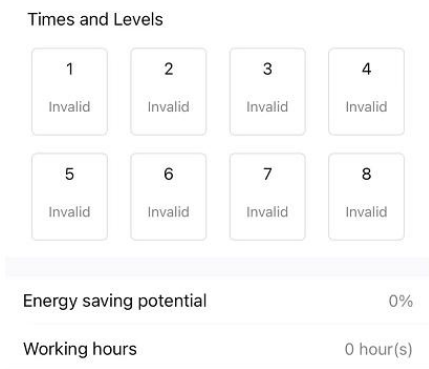


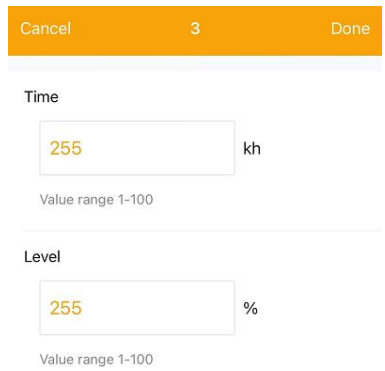
Constant lumen output: Click to turn on the constant lumen output function, which automatically adjusts the current to compensate for lamp aging or environmental changes, ensuring consistent brightness throughout the life cycle.

After the constant lumen output function is enabled, you can set the corresponding time and brightness. The system automatically estimates the energy saving percentage based on the set value.

Time value range 1~100kh; Level value range 1~100%;







Hardware version: Display the current hardware version.

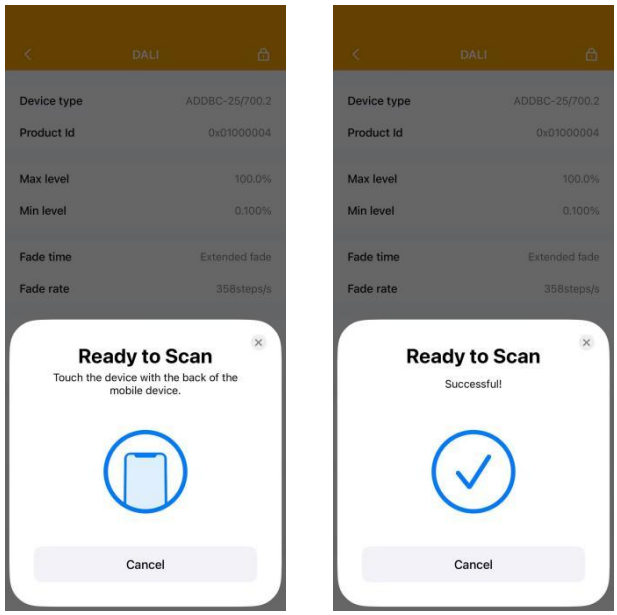
Software version: Display the current software version.

DALI bus power supply status: Click to select connect/disconnect the device communication with the DALI bus.



Set All Attributes: Click to send the current configuration down to the driver.

Step 5: After setting, please save the selected configuration via NFC and power on the device.



Note:

1.NFC function doesn't require any power driver.

2.Many functions can be configured by NFC. Kindly check your desired functions.

3.For 2-channel outputs product, we recommend ensuring that both loads are connected and have the same loads for each channel at the same time during testing.

If you have to connect 1 channel to test, before powering on please follow the following moves.

①If you are connected to "+/WW"(signal channel), please make sure to set "power on CCT" of NFC Driver to 2700K(DALI default value), and write to the device.

②If you are connected to "+/CW"(signal channel), please make sure to set "power on CCT" of NFC Driver to 6500K(DALI default value), and write to the device.