

Version: 1.0.4

AIDimming NFC

User Guide



Chapter 1 Overview

Software Introduction:

AIDimming NFC is a full-featured DALI configuration software. Using advanced algorithms, it enables advanced programming of LED drivers, delivering an optimal visual experience and reducing eye strain. This software is available for iPhone and Android systems, making parameter setup more convenient. It supports DALI-2 and complies with Zhaga Book 24/25 standards.



System Features:

User-Friendly Interface: Simple operation, easy to learn.

Powerful Functionality: Covers all aspects of driver parameters to meet various functional requirements.

Safe and Reliable: Utilizes multi-layered security mechanisms to protect user data.

Flexible Configuration: Allows parameter settings based on user needs.

Efficient and Stable: Employs advanced technology to ensure stable software operation.

Chapter 2 Installation and Operation

Installation Steps:

NFC Driver Setup Software (Mobile)

1. Open your browser and go to our website: www.aidimming.com. Download the "NFC Driver Setup Software (Mobile)" from the software download page. Alternatively, scan the QR code below with your phone to access the website, or download it from the Google Play Store or Apple Store.



*(Images originally at positions indicating QR codes and website)
Please use your browser to scan the QR code (mobile).*

Main Interface:



① Menu Bar:

You can import/create files, save configured data, import ECG databases, update the ECG database, update the app version, access help and product information, switch between Chinese and English, and contact customer service.

② NFC & Bluetooth:

Select the connection method: NFC or Bluetooth.

③ Write:

Writes the configured parameters to the driver.

④ Report:

View feedback and evaluation from read NFC tag data, including energy data (DALI 252) and diagnostic data (DALI 253).

⑤ Open:

Used to open a previously saved driver parameter configuration file (file extension: .ads).

⑥ Read:

Retrieves stored data or information from the NFC driver and transfers it to the software.

⑦ Product Information:

Click to view information from the read NFC tag. Parameters can be set as needed, including: Operating Mode, Output Current, Color Temperature Calibration (excluding single-color models), Fade-on Time, Constant Light Output (CLO), DALI Settings, Dim-to-Warm (excluding single-color models), PushDIM, Emergency Mode, and Luminaire Parameters.

Menu Bar:

Click the top-left corner on the main page to access the menu bar.



① Import/Create New Project:

Import an existing file to modify or view parameter information.

② **Save:**

After configuring parameters, you can save the settings from the menu bar. Enter a file name (XXXX.ads). Saved driver configurations can be found under "Open".

③ **Import ECG Database:**

Import required ECG data files into the ECG database.

④ **Update ECG Database:**

Please click "Update Database" before each use to ensure the app functions correctly.

⑤ **App Version:**

Check for app version updates online (requires internet) and view the current app version.

⑥ **Switch Language:**

Toggle between Chinese and English interface.

⑦ **Help:**

Access the official webpage.

⑧ **About Us:**

View software version, website, etc.

Operation Steps:

(1) **For Android phones:** Enable the NFC function in the phone's settings. If your phone does not have built-in NFC, you will need to purchase a Bluetooth programmer (e.g., "NFC Bluetooth Programmer IDECCO SmartHF-BLE") to configure the driver via Bluetooth (see Figure 1). **For iOS devices:** No action is needed, as NFC is automatically enabled.

(2) Tap the app icon to launch the software.



NFC蓝牙编程器
ID ECCO Smart HF-BLE

(Figure 1 - Reference for Bluetooth Programmer)

(3) **The driver must be powered off before performing "Write" or "Read" operations.** On the main interface, click "Read". Place the phone's NFC antenna area against the driver's NFC sensing zone. Hold the phone steady until the message "Read Complete" appears, then you can move the phone away. After reading, click "Confirm" to proceed with driver operations (see Figures 2, 3, 4).



(Figures 2, 3, 4 - Reference for reading process)*

(4) Click "Product Information" on the main interface to enter the function menu and configure parameters. Set parameters according to your needs. After configuring each parameter, click "Save" in the top-right corner (see Figures 5, 6). After configuration, click "Summary" in the top-right corner of the parameter page to view the configured parameters (see Figure 7). If parameters are set incorrectly, click "Restore" at the bottom of the function menu to reset all settings to their initial state (see Figure 7).



(Figures 5, 6, 7 - Reference for parameter setting interface)

Note: It is recommended to re-read the driver information each time after restarting the app.

Chapter 3 Advanced Functions

Function Menu:



① Summary:

Helps to quickly and accurately view and analyze all configured data (see Figure 1).

② Operating Mode:

Select between **Factory Mode** and **Standard Mode**.

Standard Mode: Fully complies with the DALI standard protocol.

Factory Mode: Optimizes dimming performance and compatibility based on the standard mode.

For each mode, different driver output types can be selected (see Figure 2). *Note: Single-color products only allow selection between Factory Mode or Standard Mode.*



(图1)



(图2)

(Figures 1, 2 - Reference for Summary and Operating Mode)

③ Output Current:

Within the product's maximum and minimum current range, the driver's output current can be freely set. Some specific products allow adjustment with 1mA precision (refer to the product's datasheet for details) (see Figure 3).

Note: Please verify the luminaire parameters before setting the current.

④ Color Temperature Calibration:

Adjust the current value of each channel to achieve the desired color temperature of the light source (see Figure 4). Configure the rated current parameters for warm white and cold white light as needed. *Not available for single-color products.*



(图3)



(图4)

(Figure 3 - Reference for Output Current)

(Figure 4 - Reference for Color Temperature Calibration)

⑤ Fade-on Time:

Set the fade-on time and fade rate when the driver powers on (see Figure 5).

6 Constant Light Output (CLO):

As shown in Figure 6, after prolonged use, light sources may experience lumen depreciation. CLO allows setting the driver to automatically increase the output current after a certain operating time to maintain the luminaire's brightness close to its initial level.



(图5)



(图6)

(Figures 5, 6 - Reference for Fade-on Time and CLO)

⑦ DALI Settings:

DALI supports multiple functions, including Short Address, Groups, Power-on, System Failure, Dimming Curve, Fade Time, Limiting, Color Temperature Range, Color Temperature Parameters, Scenes, etc. (see Figure 7).



(图7)

(Figure 7 - Reference for DALI Settings)

Short Address: View or modify the driver's address.

Groups: Allows users to combine multiple DALI devices into different groups. Each group can contain one or more devices. Grouping allows for more convenient control of these devices.

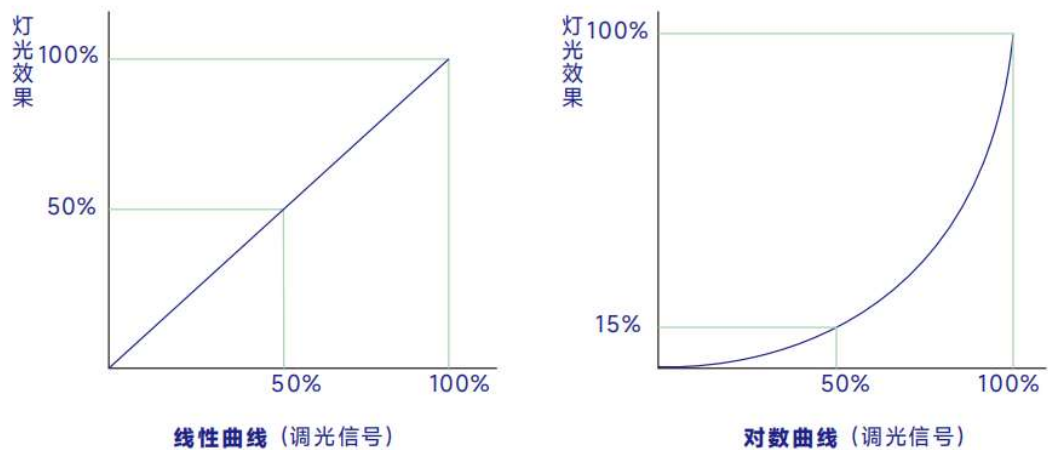
Power-on: View or set the driver's brightness and color temperature at power-on.

System Failure: View or set the color temperature state when the system is in a fault condition.

Dimming Curve:

Logarithmic: The change in light output is slow in the lower dimming signal range and faster in the higher range. The overall curve is logarithmic.

Linear: The change in light output is directly proportional to the received dimming signal.



(Diagrams referenced: Linear Curve, Logarithmic Curve)

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Fade Time:

Allows users to set and view the fade time and fade rate for brightness or color temperature changes. This helps meet different application requirements and provides a more comfortable lighting experience.

Limiting:

View or set the maximum or minimum brightness level.

Color Temperature Range:

View or set the physical coldest/warmest values and the adjustable range for color temperature.

Color Temperature Parameters:

View or set the number of steps for color temperature adjustment. A larger number results in faster changes.

Scenes:

Each driver can store up to 16 scenes. Each scene defines a specific brightness and color temperature for the lighting device(s).

8. Dim-to-Warm:

This function adjusts the color temperature by changing the brightness percentage. It can be configured based on specific LED module parameters (see Figure 8). *Not available for single-color products.*

9. Push DIM:

Set or view the synchronization brightness and the fade time for Push DIM functionality (see Figure 9).



(图8)



(图9)



(图10)



(图11)

(Figures 8, 9 - Reference for Dim-to-Warm and PushDIM)

10. Emergency Mode:

View and set whether the driver automatically enters emergency mode when powered by DC backup, and the brightness level in emergency mode (this option is only visible if the product supports emergency mode) (see Figure 10).

11. Luminaire Parameters:

Set various luminaire parameters such as power, brightness, and product data information, which can be read by the main controller (see Figure 11).

12. Restore:

Clicking "Restore" resets all settings to factory defaults.

(Figures 10, 11 - Reference for Emergency Mode and Luminaire Parameters)

Chapter 4 Frequently Asked Questions

Installation and Startup Issues:

1. What should I do if I get an "Installation Failed" message during installation?

- a. Close other running programs to free up system resources.
- b. Try running the installer as an administrator.
- c. If the problem persists, please re-download the installation package and try again.

2. What should I do if the software doesn't respond or crashes after startup?

- a. Ensure your system is free of viruses or malware.
- b. Try restarting your phone/computer and then relaunch the software.
- c. If the problem continues, please uninstall and reinstall the AIDimming NFC software.

3. What should I do if the NFC driver parameters cannot be read?

- a. Make sure your phone has NFC capability and that it is enabled. If your phone lacks NFC, you can purchase and use the "NFC Bluetooth Programmer IDECCO SmarHF-BLE".
- b. Ensure the phone's NFC antenna area is correctly placed against the driver's NFC sensing zone.
- c. If the problem persists, please uninstall and reinstall the AIDimming NFC software.

If your question is not listed, please contact our customer service.