Car Interior Ambient Led Controller User Manual

SP3PRO is a highly specialized LED controller designed specifically for LED decorations within the vehicle cabin. It's independently developed brand-new visual APP interface is tailored for automotive styling, providing users with an exceptional lighting atmosphere experience and convenient operation.

Controller Description

1.Product Features

Notes:

1.Each central control controller can control: Central Control Light SPI + Footwell Light PWM

2.Each door controller can control: 1 Door Light SPI + 1 Storage Light PWM

2.Controller Optional Combination Methods

Serial Number	Configuration Method	Controller Combination Method
Method 1	Whole Vehicle Control Configuration	Central Control *1 + Doors *4
Method 2	Central Control Configuration + Doors Standalone Configuration	Central Control *1
Method 3	Doors Standalone Configuration	Doors *4

APP User Instructions

1.APP Download Instructions

Method 1, Scan the QR code on the left to download and install.
Method 2, Search for "Banlanxi" in the App Store or Google Play to download and install.
Compatible with iOS 11.0 and above, Android 4.4 and above systems.

2.APP Connection to Controller Process

1 **Adding the First**

Click the "+" on the top right corner of the APP homepage, then select "Add Device" to search for the controller you need to add from the search list.

When there are multiple available devices will be found, they need to be distinguished one by one sequentially.

2 **Create a New Vehicle**

When adding for the first time, you need to create a new vehicle first, enter the vehicle name, and click save to complete the vehicle creation.

3 **Select the Installation Area for the First Controller**

The light strip connected to the controller being added will flash in white quickly, indicating the current installation area. In the APP, select the area corresponding to the actual installation location. Click to confirm the correct installation area based on the light prompt.

After successful addition, you will directly enter the control interface. The controller you just added will be displayed as the master by default, and a "M" identifier will be displayed in front of the area name.

4 **Adding the Second Controller**

Return to the homepage and add the second controller following the method mentioned above.

Then select the vehicle that has already been created.

5 **Select the corresponding installation location on the APP's control interface area according to the actual installation position (based on the light prompt).**

Apart from the first controller added as the master controller for the entire vehicle, subsequently added controllers will automatically be categorized as slaves. Within the same installation area, ensure the area in the APP corresponds to the actual installation location.

Add all vehicle controllers following the above method.

6 **After successful addition, you will re-enter the control interface.**

You can adjust the lighting effects through **[Dynamic]**, **[Solid]**, **[Rhythmic]** based on the vehicle's whole or partitioned location.

3.APP Vehicle Light Adjustment Instructions

Whole Vehicle Mode

Unified control of the entire vehicle's lighting

You can control the lighting by switching between Whole - **[All]**, Whole - **[Middle]**, and Whole - **[Rear]**.

Areas Mode

Independent control of vehicle area lighting

You can independently control partition lighting by switching C/F , FM , FR , SL .

4.APP Settings Instructions

1. **Rename:** Allows modification of the vehicle name.
2. **Device :** You can select the vehicle controller to delete the device or upgrade its firmware.
3. **Color Calibration:** Select the corresponding position of the lamp beads in the controller, preventing issues like inaccurate light colors.
4. **Device Password:** Management of the car light's security password.

Controller Parameters

1.Controller Ports and Parameters

Input Power	Working Current
DC12V	10mA

Lamp Type	SPI Lamp Voltage
SPI type lamps: Three-channel RGB color magic conventional single-line zero-code driven lamps PWM type lamps: 5CH PWM RGB lamps	5V or 12V (optional)

SPI Lamp Voltage	PWM Lamp Voltage
5V or 12V (optional)	5V or 12V (optional)

PI Lamp Power Switch	Maximum Total Output Current
Cuts off the power supply to the lighting when turned off	MAX 2A (Total current for simultaneous lighting)

5V Power Output	Enclosure Dimensions
5V/2A-CC/CV	64mm*52mm*15mm

FCC Caution:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.