

Zeliox ZCM6

APP User Manual

Version: V2.0

2025.01.22

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Chapter 1 APP download and Bluetooth connection

1.1 APP Download

The ZCM6 product is available with a bluetooth APP for remote viewing and control of the product. Please search 'Zeliox ZCM6' on Google Play or Apple App Store to download the APP.

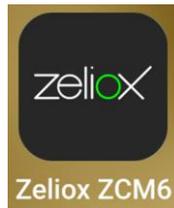


fig 1-1 Zeliox ZCM6 APP Icon

1.2 Bluetooth connection

- ① Please leave the ZCM6 powered up and Dip Switch 3 ON (Bluetooth DTU enabled by default).
- ② Turn on your phone's Bluetooth and open the Zeliox ZCM6 APP.
- ③ APP connects with ZCM6 Bluetooth for the first time, you need to enter the passcode. The default passcode is 0000 (can be changed by the connected user), if the passcode is forgotten, you can check the serial number of the ZCM6 machine nameplate, and the Bluetooth passcode is the last 4 digits of the serial number.

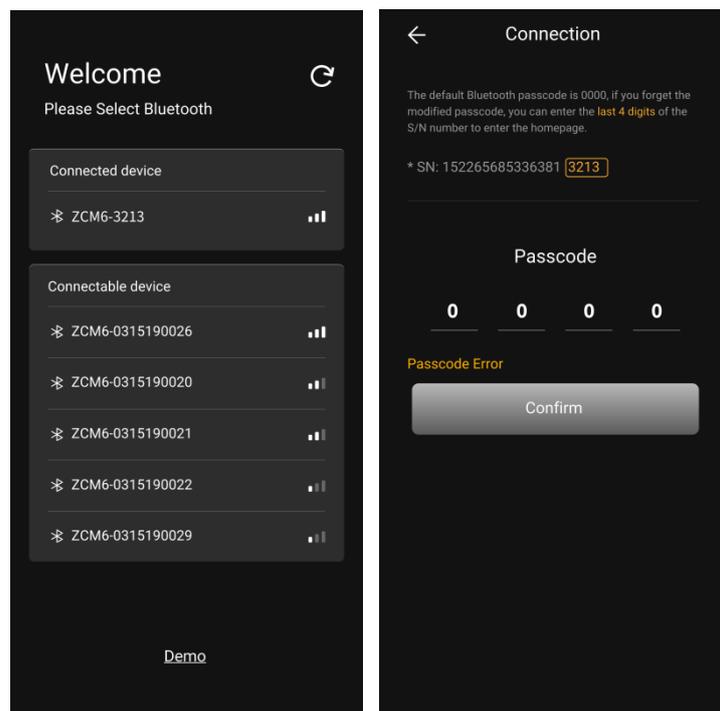


fig 1-2 APP connects to Bluetooth interface for the first time

Chapter 2 APP Homepage & Alarm Page

2.1 Homepage

Entering the APP homepage, you can control each the channel outputs (controllable load) by one click .

A lit square button means the current output channel is switch on, and when the square button is dark, it means the current output channel is switch off.

Users can view the powering load of each channel and count the total output power in real time. Load page is divided into controllable load page and constant power load page. Constant power load type is uncontrollable. By default, Constant power load channel will be on when ZCM6 is switched on.

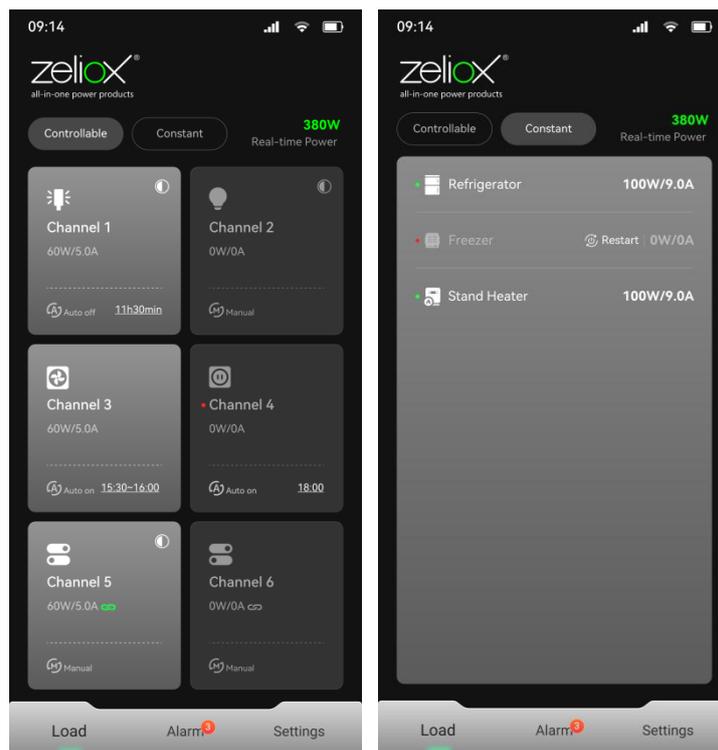


fig 2-1 Controllable Load Interface and Constant Load Interface

If the user sets the load type of a channel to PWM Dimming Controlled Load, a dimming icon will appear on the upper right corner of the square button, and a long press on any position of the square button will bring up the dimming button, which can be infinitely dimmed freely.

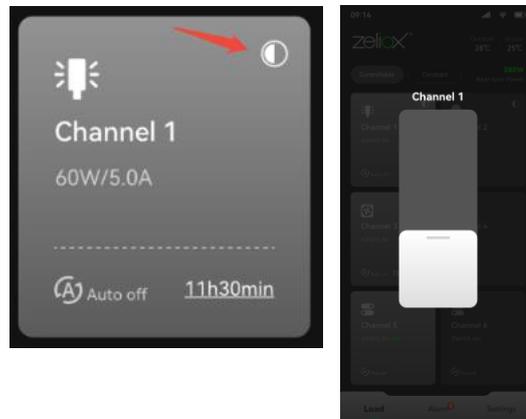


fig 2-2 PWM Dimming Controlled Load

2.2 Timed automatic channel on/off function

Users can set the channel to turn on or off automatically at regular intervals according to actual needs, providing users with rich usage scenarios.

Users can switch the channel switching mode by clicking the lower left of the square button, which is divided into: Manual (default), AUTO OFF, AUTO ON. Click the time in the lower right corner to set the channel timing.

When a channel is set to Auto mode, the specified channel switch will automatically turn on or off at a customized time, or you can manually turn the channel on or off in advance.

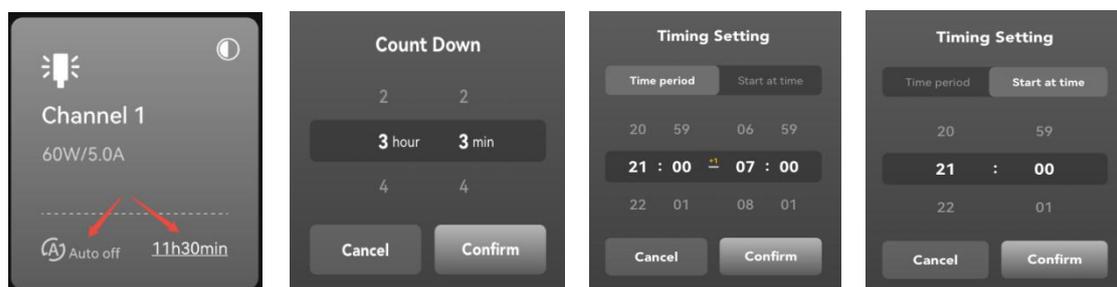


fig 2-2 Timed automatic channel on/off function

2.3 Alarm page

Click "Alarm" to enter the alarm page to view the current alarms. Each alarm will have a corresponding suggestion, click to view the current alarm troubleshooting suggestions.

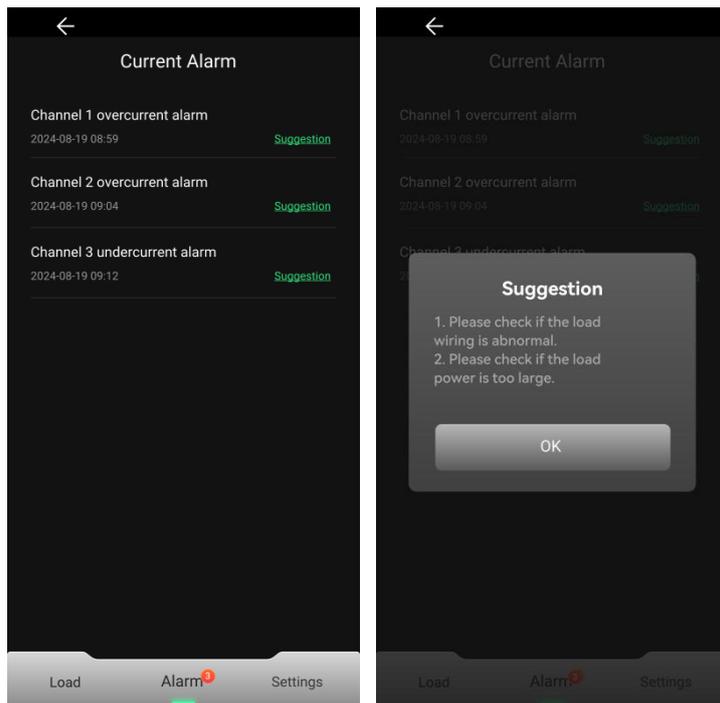


fig0 -3 Alarm Page

Chapter 3 APP Setting Page

3.1 Settings Page Overview

Click on "Settings" to enter the settings page for General settings, Module Settings, Device Settings, Bluetooth.

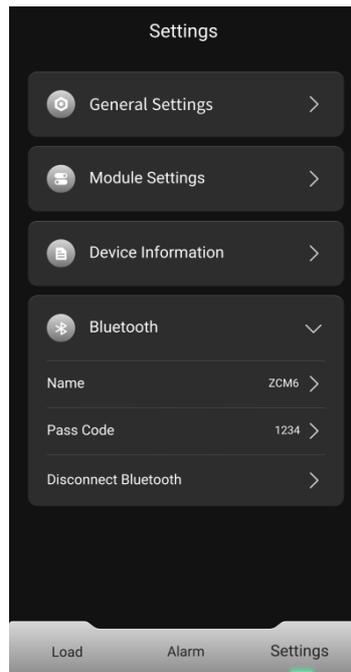


fig 3-1 Setting Page Overview

3.2 General settings

Click "General settings" to customize the button position.

Click  to drag the cards to swap the load positions, this order corresponds to the load positions on the home page.

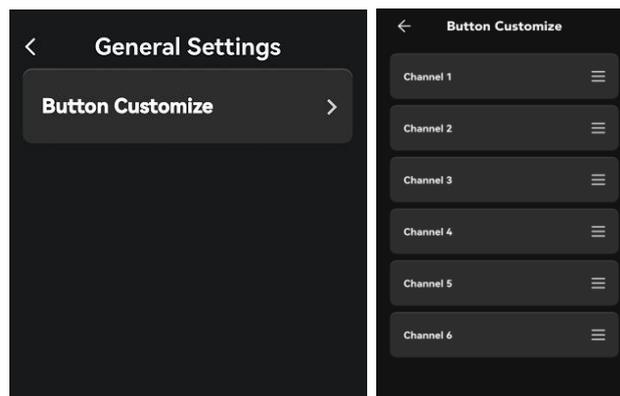


fig 3-2 General settings and Button position customization

3.3 Module Settings

Click to enter the "Module Settings" page.

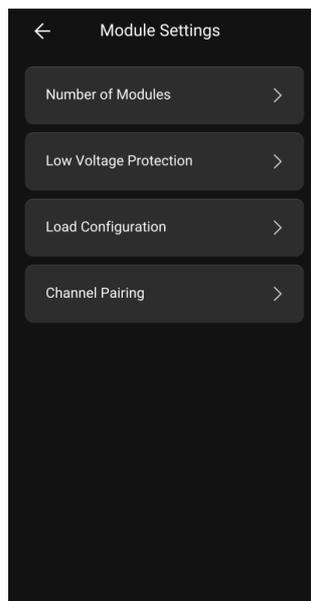


fig 3-3 Module Settings

This setting screen mainly includes the following settings:

3.3.1 Number of Modules

Please configure the number of ZCM6 devices through this setting item, the default number of device is "1", when there are multiple ZCM6 devices used in parallel, you need to set the total number of ZCM6 devices correspondingly.

For example, if there are 3 ZCM6s used in parallel, the quantity should be selected as "3".

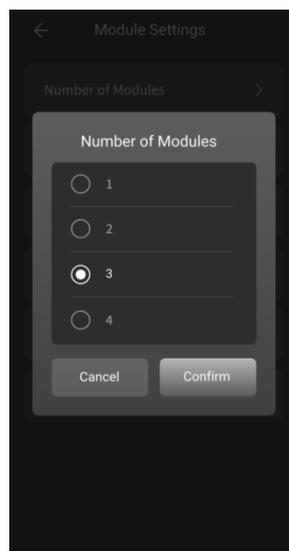


fig 3-4 Number of Modules

3.3.2 Low Voltage Protection

The user can set the input (battery) low voltage protection value and protection release value, which can be used to prevent the battery from being drained by the ZCM6.

When the low voltage protection is triggered, the alarm page will display "Low voltage protection" and all load output channels are powered off and disabled.

When the input (battery) voltage reaches the protection release value, the low voltage protection is restored, at which time the output channel can be powered on normally.

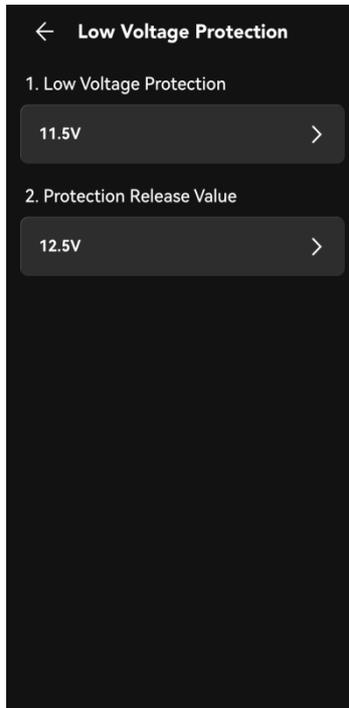


fig 3-5 Low voltage protection

tab 3-1 Low voltage protection setting item

Settings item	Options	Note
Low voltage protection	Self-identifying 12V system default: 11.0V Settable range: 10.5-12.5V Self-identifying 24V system default:	

	<p>22.0V</p> <p>Settable range: 21.0~25.0V</p> <p>When the protection value \geq release value</p> <p>Release value needs to be +0.5V from the protection value.</p>	
Protection release Value	<p>Self-identifying 12V system default: 11.5V</p> <p>Settable range: 11.0-13.0V</p> <p>Self-identifying 24V system default: 22.5V</p> <p>Settable range: 22.0~26.0V</p> <p>When recovery value \leq protection value</p> <p>The protection value needs to be -0.5V above the release value.</p>	

3.3.3 Load Configuration

Users can configure each load channel separately, click to enter each channel configuration interface, as shown in the following figure:

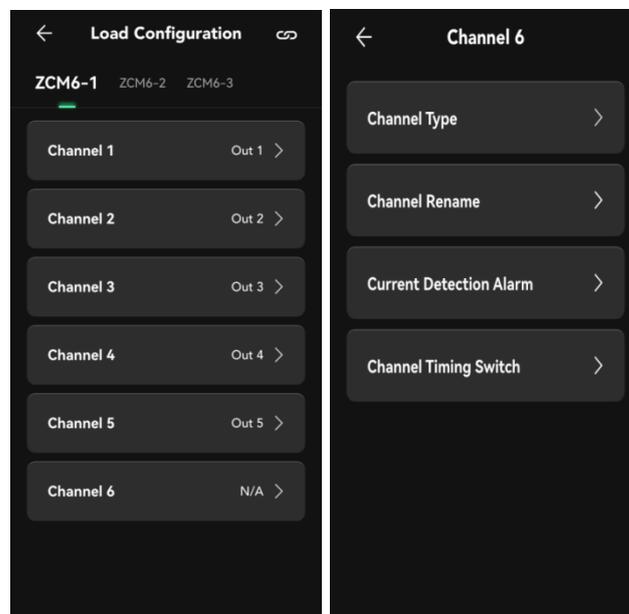


fig 3-6 Load Configuration

This setting screen mainly includes the following settings:

3.3.3.1 Parallel setting of adjacent channels

Click  in the upper right corner of the "Load Configuration" page to enter the page of parallel connection of adjacent channels.

Adjacent channels can be enabled in parallel two by two (channels 6A,6B are enabled in parallel by default, the remaining channels are not enabled by default).

When two channels are connected in parallel, the total overload capacity of the channels can be increased to a maximum of 25A and synchronized switches can be realised for channels connected in parallel.

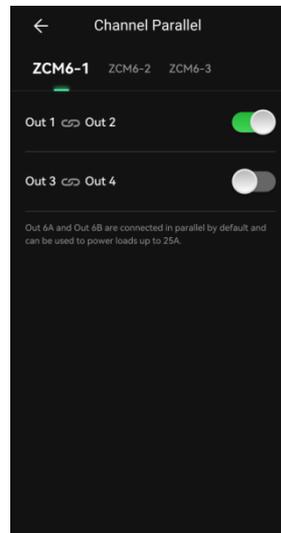


fig 3-7 Parallel setting of adjacent channels

3.3.3.2 Channel Type

The user can customize the load channel type that can be set are as follows:

- a. N/A: The homepage load interface does not display the control button for this channel, and the rest of the settings for this channel are not available.
- b. Constant Powered Load: This channel type of load is turned on by default when the ZCM6 is powered on until the ZCM6 is powered off. It cannot be controlled via the Load Channel button.
- c. ON/OFF Controllable load: Controllable load, the channel is switched off by default when ZCM6 is first powered on, and the channel can be switched on and off at any time by the load button.
- d. PWM Modulated Controlled Load: Dimmable Controlled Load, user can do 1%-100% infinitely dimmable, and the dimming gear will be memorized. The channel is switched off by default when

ZCM6 is first powered on, and the channel can be switched on and off at any time by the load button.

If the load channel type is set to N/A or PWM Modulated Controlled Load, parallel setting of adjacent channels will not be possible.

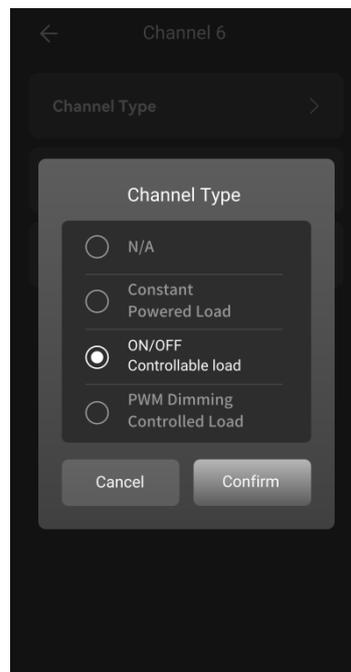


fig 3-8 Channel Type

3.3.3.3 Channel Rename

The factory default name of the output channel is Channel 1-6, users can rename the output channel and select the channel display icon (16 icons are available in the icon library).

Channel renaming and icon changes will be displayed in a synchronized update on the Home page.

Rename character limit: the name can not be empty and not more than 16 characters.

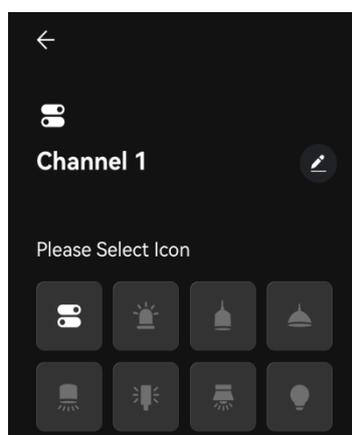


fig 3-8 Channel Rename

3.3.3.4 Current Detection Alarm

Each output channel of ZCM6 is equipped with current sampling, which allows users to customize the output overcurrent protection value or undercurrent alarm value to better understand the load status and protect the loads.

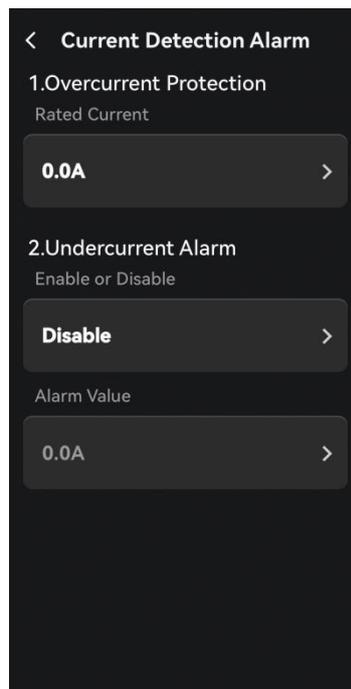


fig 3-9 Current Detection Alarm

tab 3-2 Current Detection Alarm Setting Items

Settings item	Options	Note
Overcurrent Protection-	Default: 15.0A	The protection value is

<p>Rated Current</p>	<p>Settable range: 1.0~15.0A</p> <p>Default if parallel connection of adjacent channels is turned on: 25.0A</p> <p>Programmable range: 1.0~25.0A</p> <p>Channel 6A, 6B default parallel connection,</p> <p>Settable range: 1.0~25.0A</p>	<p>1.2 times the rated value.</p>
<p>Undercurrent Alarm- Alarm value</p>	<p>Not enabled by default.</p> <p>Settable range: 0.0~10.0A</p> <p>If the adjacent channels are connected in parallel, the range can be set: 0.0~20.0A.</p> <p>Channel 6A, 6B default parallel connection, Settable range: 0.0~20.0A</p>	

3.3.3.5 Channel Timing Switch

Users can set the channel to automatically switch on or off at regular intervals according to actual needs, divided into:

- a. Manual (default): Click to turn on, click to turn off.
- b. AUTO OFF: The load needs to follow the set countdown logic when it is turned on.
- c. AUTO ON: The load needs to follow the set start time and end time operation logic when it is turned on/off.

Even in Auto on or Auto off mode, manual control is still supported. Manual control has the highest priority.

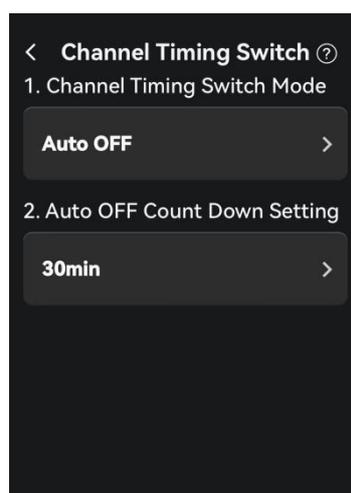


fig 3-10 Channel Timing Switch

tab 3-3 Channel Timing Switch Setting Items

Settings item	Options	Note
Auto OFF Count Down Setting	Default: 30min Settable range: 0h1min-71h59min	
Auto ON Time Period Setting	Default: 9:00-17:00 Settable range: 00:00-23:59 (across days)	Automatic start time can be set and there is no automatic switch off time.

3.3.4 Channel Pairing

a. Clicking on the "+" area brings up the Panel pair pop-up, prompting the user to press the same button on the panel twice.

If you want to cancel the pairing panel to return to the add page, click the Cancel button.

b. After the panel has been paired successfully, go to the channel study page.

c. Click on the "Click" button to bring up the Load Selection pop-up window, which includes all loads except constant powered loads.

d. Clicking on the "Confirm" button takes you back to the panel information page, where the corresponding load you have just selected is displayed on the button.

e. Click on any other PICO button, the corresponding interface button will show green, select the control load to pairing.

Once all buttons have been paired, please click "Confirm" to complete the PICO pairing.

f. If you want to clear all the loads that have been added to this panel, please click "Clear".

g. If you want to completely remove the panel from the ZCM6 and clear the data, please click "Remove".

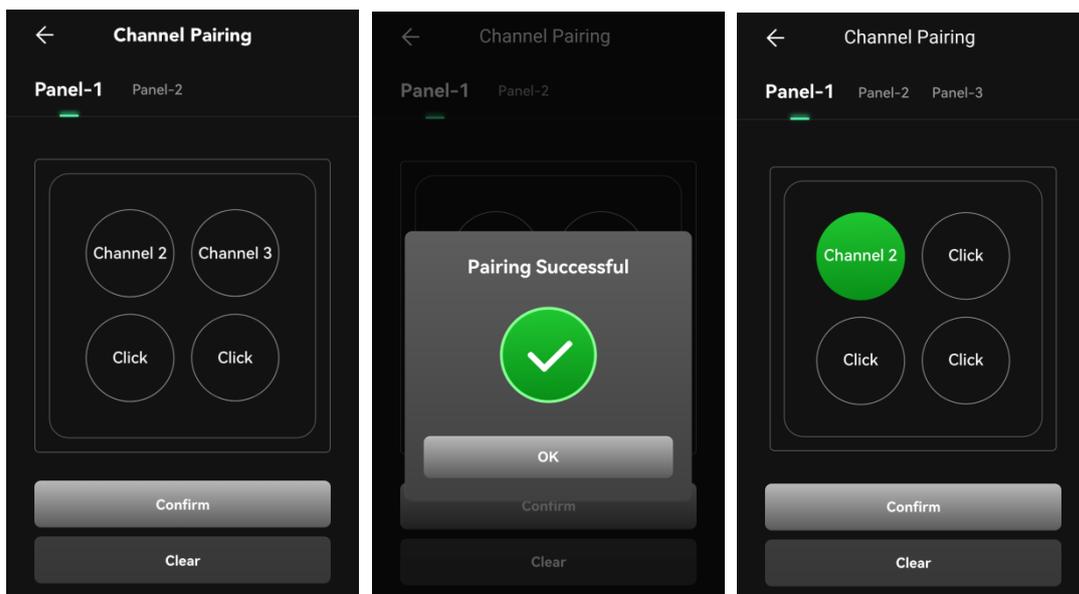
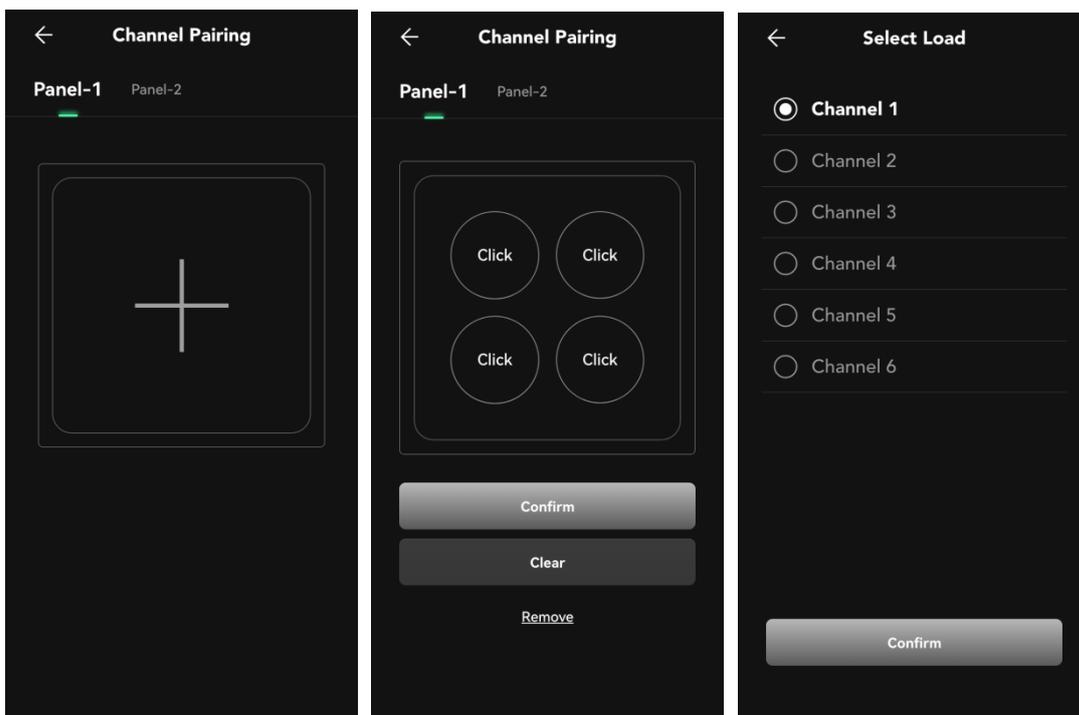


fig 3-11 Channel Pairing

3.4 Device Information

Please click to enter the device information detail page, you can view the device model, serial number, firmware Code, firmware version, and configuration file version.

Please Click on the yellow character for New Version Upgrade to perform a Bluetooth wireless upgrade of the software and configuration.

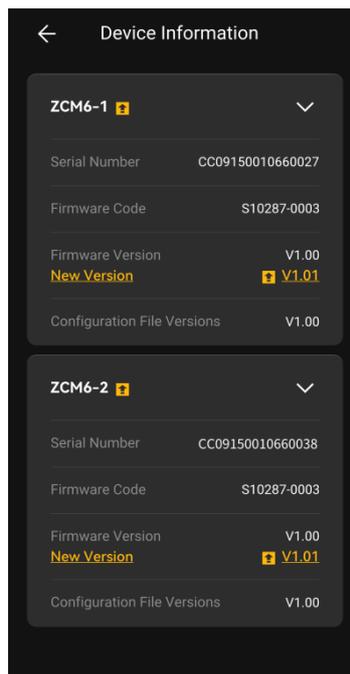


fig 4-1 Device information

3.5 Bluetooth

The Bluetooth option contains Bluetooth Name, Pass Code, Disconnect Bluetooth.

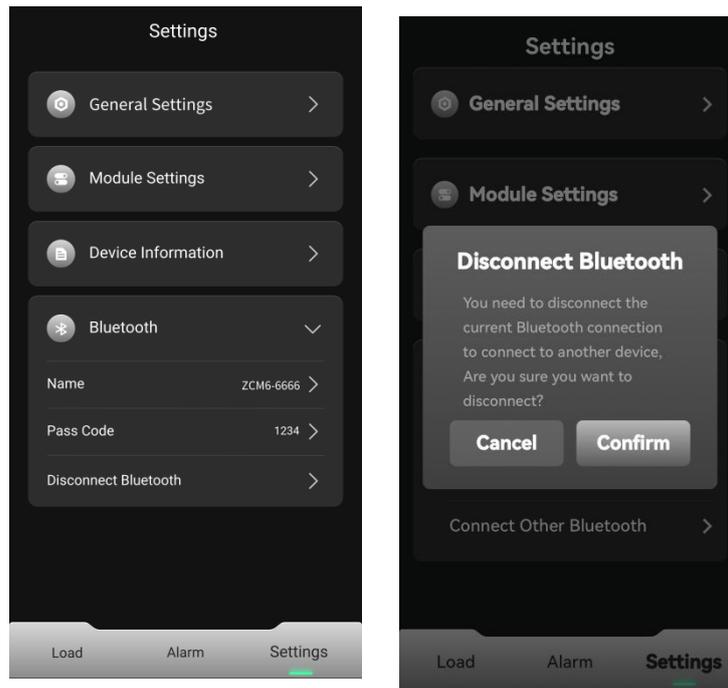


fig 5-1 APP Bluetooth Connection Page

tab 5-1 APP Bluetooth Connection Page Setting Items

Settings item	Options	Note
Bluetooth Name	Default ZCM6-Serial number last four digits Users can change to any name up to 20 characters.	
Pass Code	Default: 0000 The user can change the pass code to another 4 characters.	If the user forgets the customized 4-digit pass code, please check the last four digits of the ZCM6's nameplate serial number, which are the constant pass code.

