Shenzhen Meevt Technology BWCDS-HCQ1-R28A4 Wi-Fi Sound-Control SPI Controller Instruction Manual

Model Number: BWCDS-HCQ1-R28A4
Product Name: Wi-Fisound-control SPI controller(D series)

Contents

Product Parameter

Category	LED Controller
Domination Principle	WiFi
APP	Magic Home Pro
Language	Chinese, English, Japanese, German
Operation Platform	Android 4.0 or lOS 9.0 or higher
LED Drive Type	SPI:WS2812B,WS2811,UCS1903,SK6812,SK6812RGBW,INK1003,UCS2904B
Input Voltage	DC(5-24)V
Max Output Power	144W
Work For	LED Strip
Connect Method	Common Anode
Working Temperature	-20~+55°C
Control Distance	Visible distance 40M
Certification	CE, RoHS, FCC
Warranty	1 Year
Net Weight	22g
Dimension(L* B*H)	50MM*34.5MM.19MM

Key Functions

Speed/Brightness + -

ON/OFF

Static colors switch

7 static colors

Static RGB

Loop mode

Overlay
(From middle to both sides)/
(From both sides to middle)

Fading out
(From right to left)/(From left to right)

7 colors flow gradually

7 colors run circularly
(From right to left)/(From left to right)

7 colors overlay

1 hour delay off

Modes+/-

Scene 1-4

30 minutes delay off

Music Mode 1-4
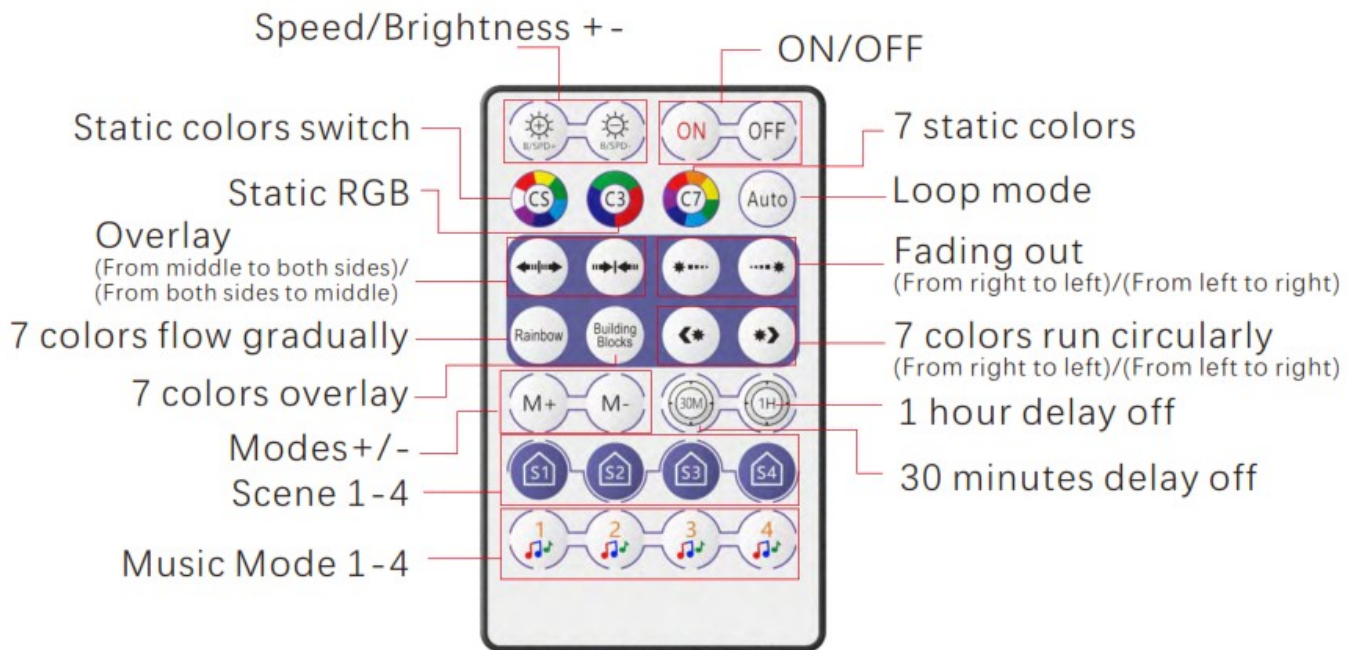
|			
	Static colors switch	7 static colors switch (Red/yellow/green/light blue/dark blue/purple/white)	
	Static RGB	3 static colors switch (Red/Green/Blue)	
	7 static colors	7 static colors switch (Red/yellow/green/light blue/dark blue/purple/orange)	
	Loop mode	Built-in mode switch	
	Modes+/-	Bulit-in mode+/Bulit-in mode-	
	DIY Mode 1-4	Hold down for two seconds to record the current mode, and short press to trigger the recorded mode next time.	
	Jump/Breathing/ Strobe/Running Water	4 different lighting effect which changes with the rhythm of external music	

Note:

1. Remote control code matching: power on the device, hold down "ON" key for 5 seconds, the device flashes slowly to indicate successful code matching.

2. Remote code clearing: power on the device, hold down the "OFF" key for 5 seconds, the device flashes quickly to indicate successful clearing

3. Scene mode can only record one custom color

How to set the IC model and IC numbers:

Long press the device and click on "Change LED Strip Type" to set the IC model, Wiring and Sorting, Number of points, Number of segment(Total number of points can not exceed 300 in each segment and total LED chip's quantity can not exceed 2048). On music mode, the total number of points in each segment and the total number of segment should be less than 150 points and 64 segments, the total LED Chip's quantity should be less than 960.
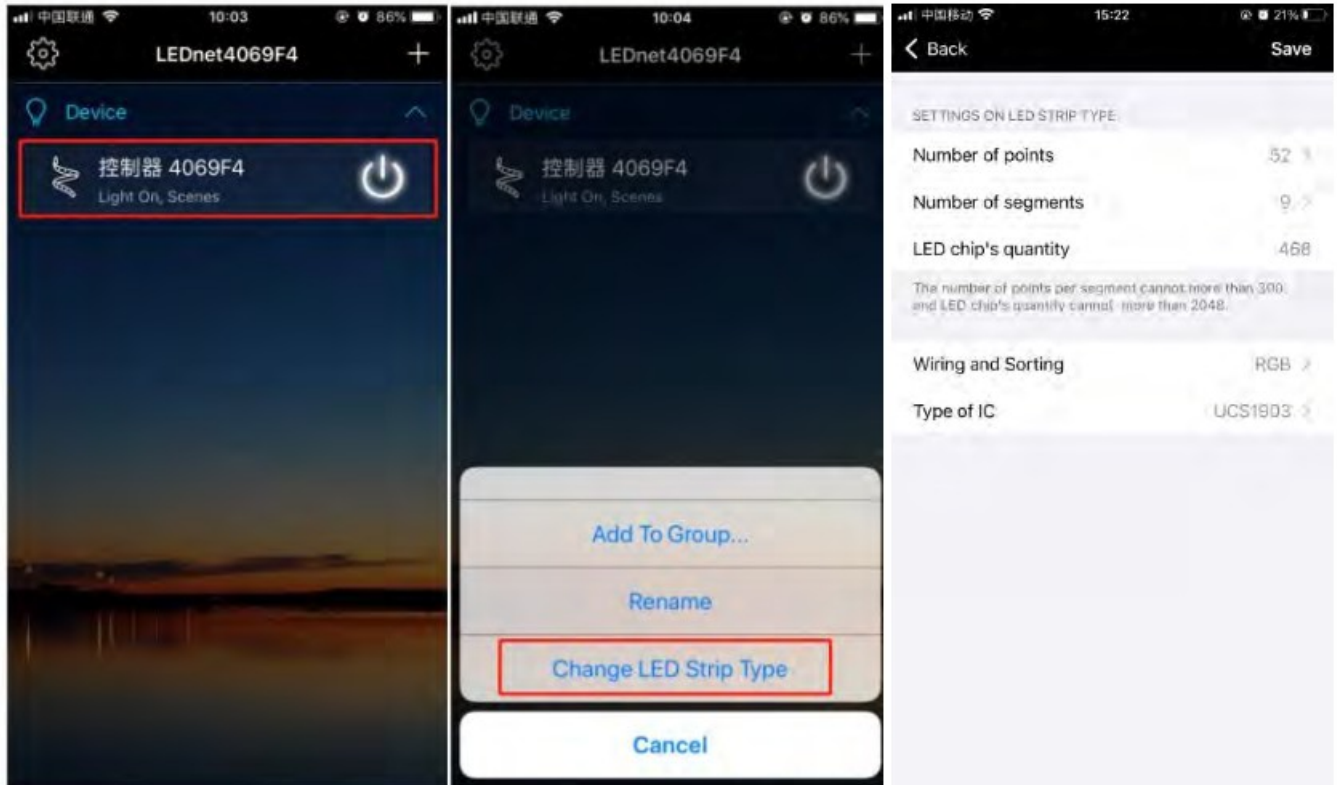
Detailed introduction of APP functions

a) Fixed Mode
10 fixed modes are built in, can change foreground and background color, adjust brightness, speed and direction freely.

b)Rbm Mode

100 patterns of change, slide the ring to select pattern effect, and slide " ▣ " or " ▣ " for overall pattern effect brightness or speed settings. Click on "AUTO" to enter
cycle mode or click on the heart icon to mark the favorite effect.
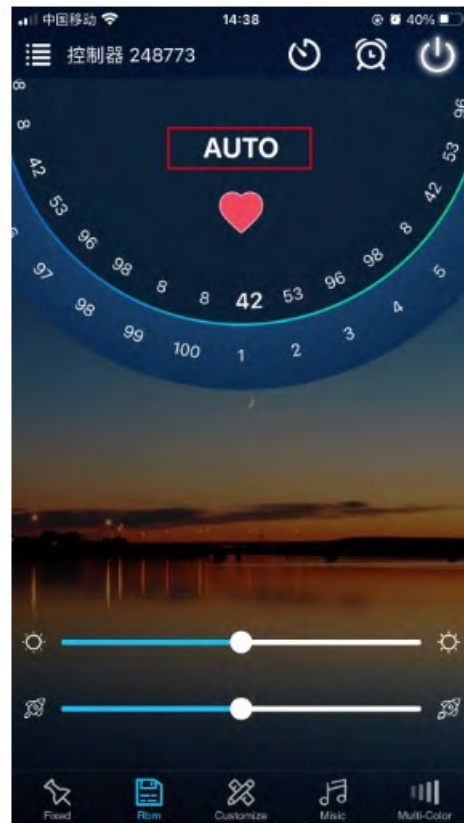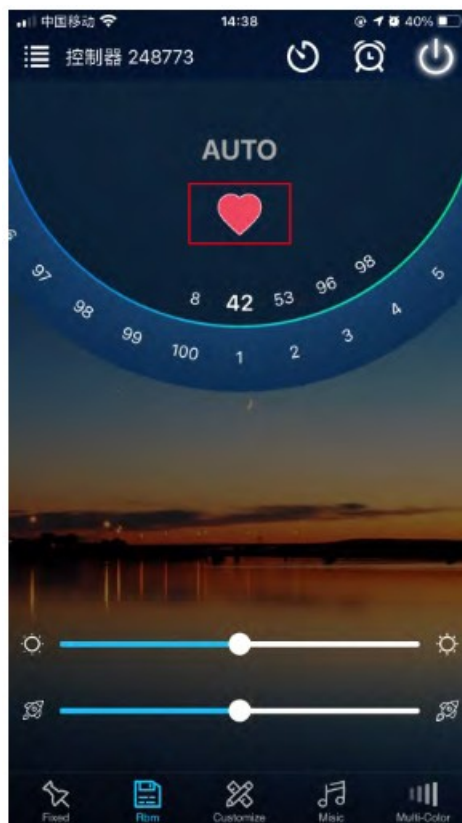
c)DIY Mode
Customized your own effects, click on" +" to choose your favorite effect and color then save it, now you can enjoy your own light effects at any time.

d)Music Mode

1. Inthe light screen mode, you can choose the falling color, column color, sensitivity and brightness, which can be played circularly to achieve a more beautiful light effect.
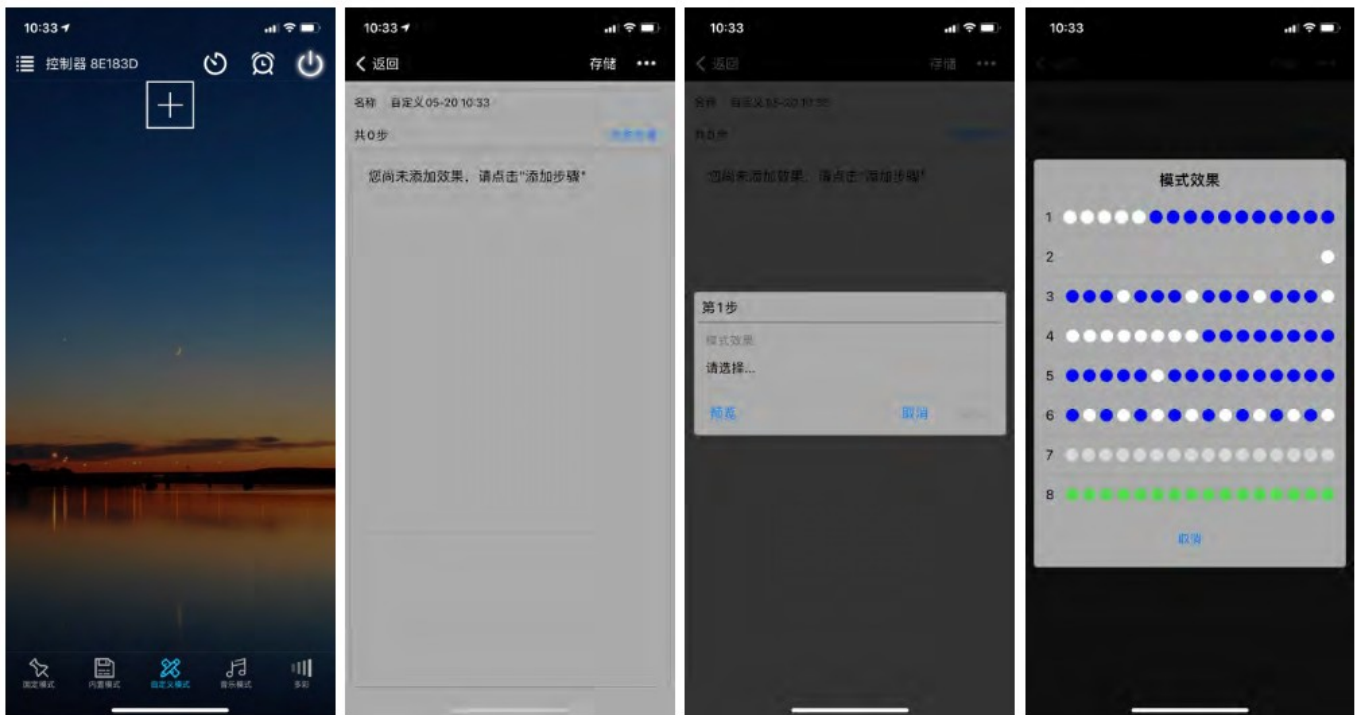2. In the LED Strip Mode, you can select the brightness and sensitivity. There are two ways to input the audio signal on the controller, built in APP microphone and external microphone.
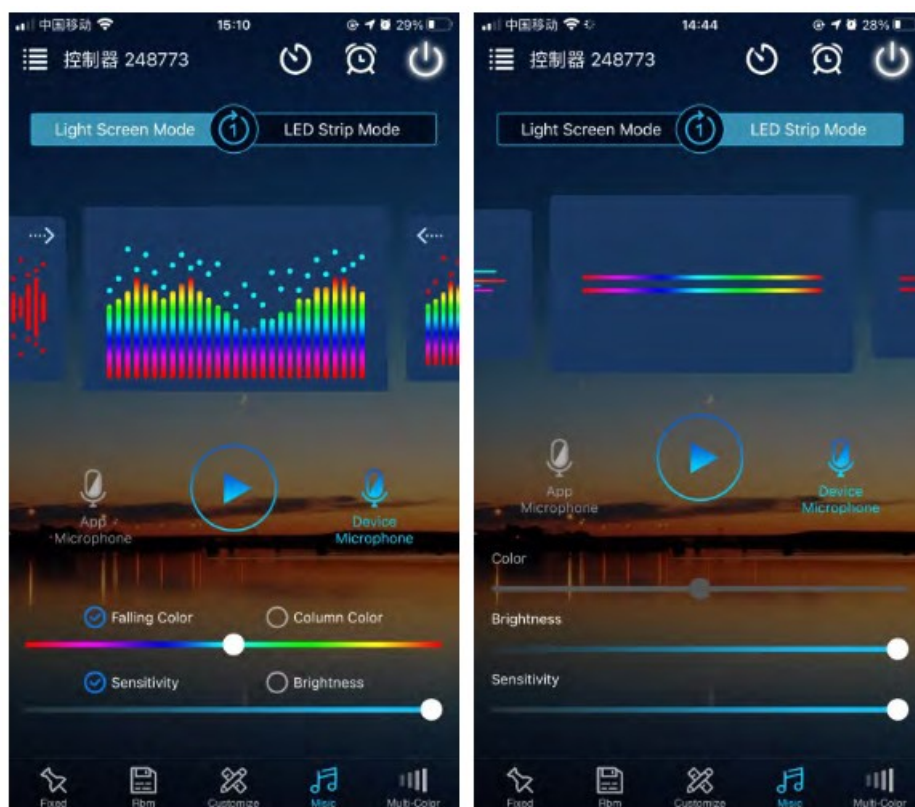
e) Multi color function

1. Can set each IC seperately and set the lights with different modes 2. Optional dynamic modes for color lump

gradient or mixed colors gradient:static, Asynchronous colors jumping, random color breathing, strobe and flow
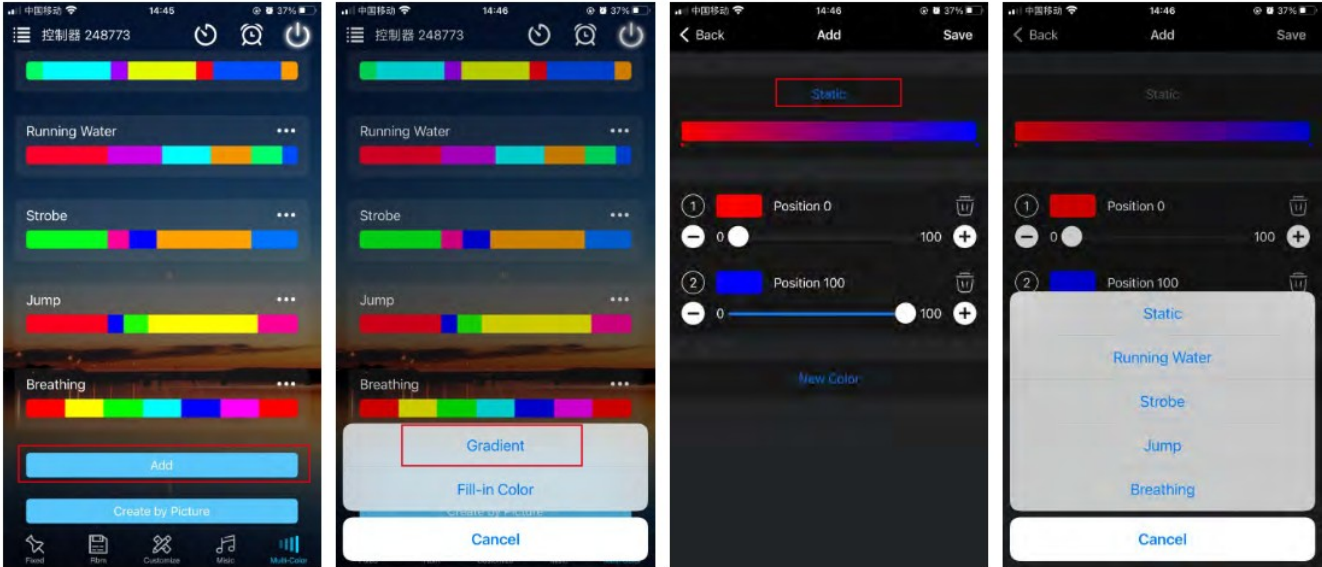
2. The area where the camera is aimed at is the coloring area, and the light color will changed accordingly.
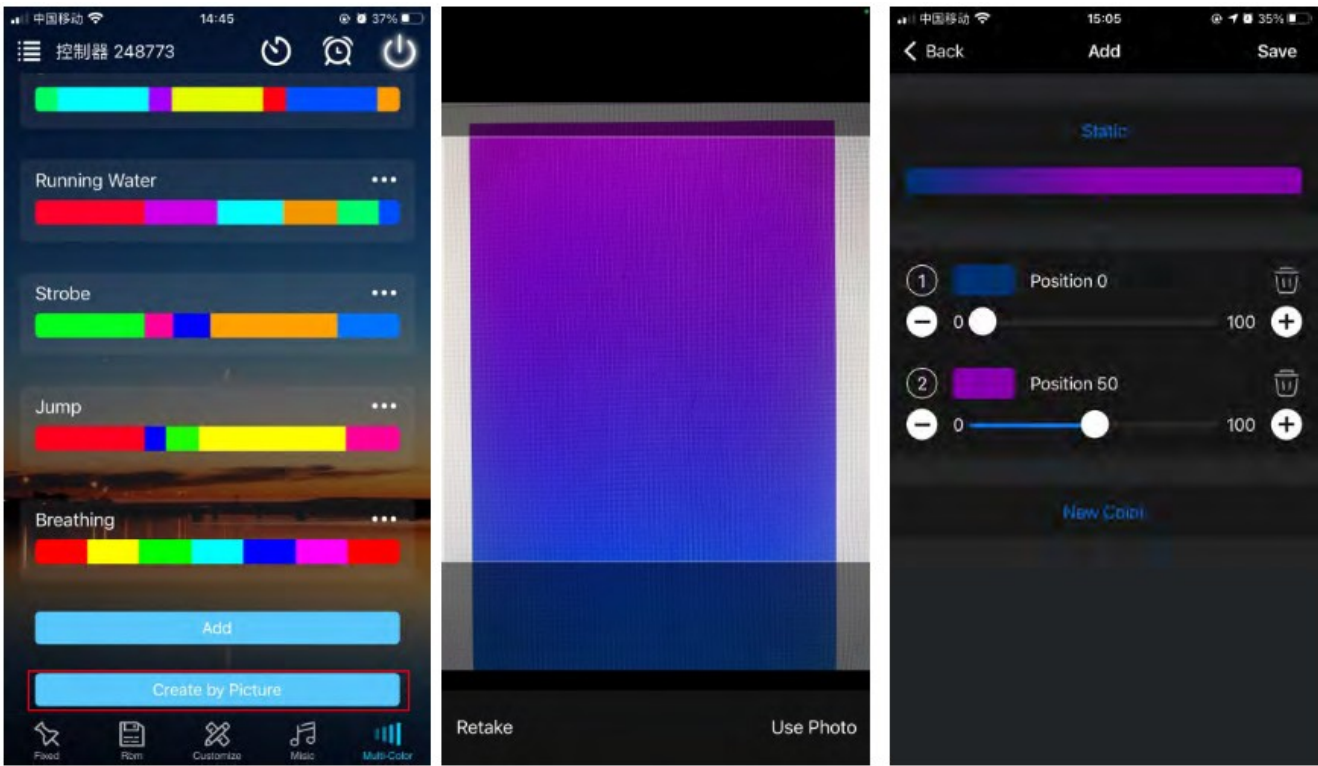
f) Timer function

Smart lights automatically come on and off at given times through the timer function.
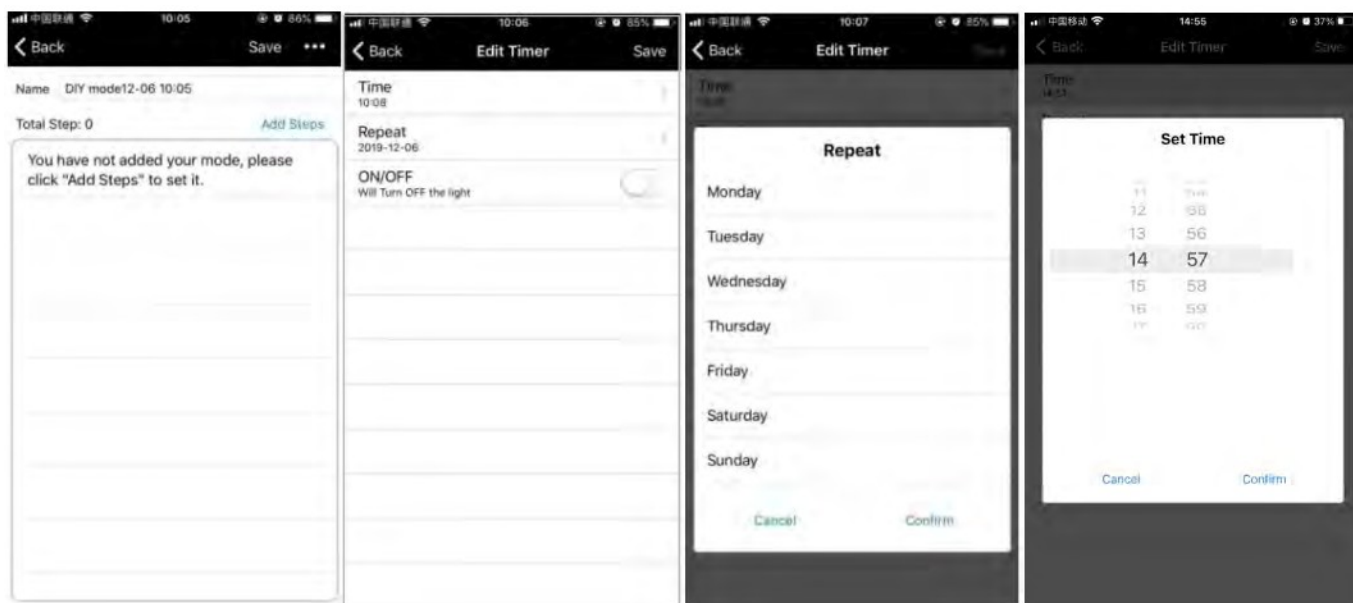
When setting the timer switch, you can select the color or dynamic mode and adjust the brightness and speed freely.

g) Delay on/off function:
The lighting delay on/off time can be set according to personal preference

ATTENTIONS

1. Please use the product in a dry environment.

2. Please use the input voltage at 5-24V DC voltage, must not connect into 220V AC directly.

3. The product is requested a common anode connection. The wrong connection will cause a malfunction.

Warning:
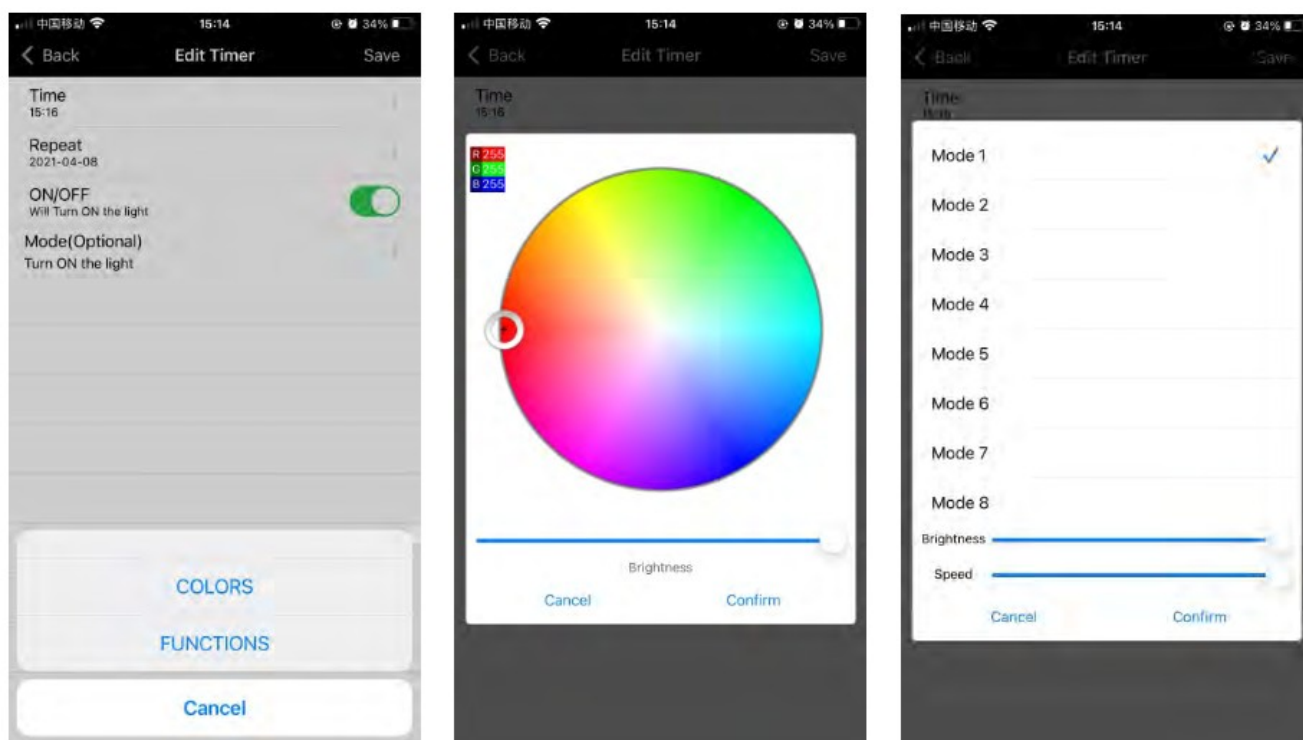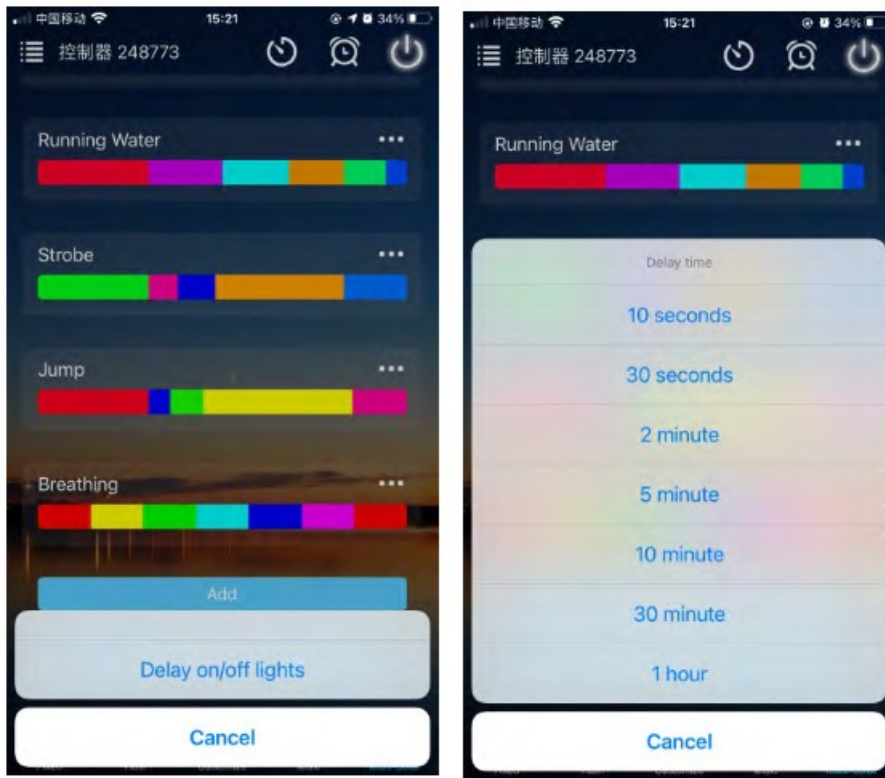Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
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.

FCC Statement:
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.

The equipment complies with FCC Radiation exposure limit set forth for an uncontrolled environment. This

equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Documents / Resources

Model Number: BWCDS-HCQ1-R28A4 Product Name: Wi-Fi sound-control SPI controller(D series) I: Product Parameter Category — LED Controller Dimension Principle — WiFi APP — Magic Home Pro Language — Chinese, English, Japanese, German Operation Platform — Android 4.4 or IOS 8 or higher LED Drive Type — SPI WS2812B,WS2811,UCS1903,SK6812, SK6812RGBW,INK1003,UCS2904B Input Voltage — DC5-24V Max Output Power — 144W Work For — LED Strip Connect Method — Common Anode Working Temperature — -20~+60°C Control Distance — Visible distance 30M Certification — CE, RoHS, FCC Warranty — 1 Year Net Weight — 21g Dimension(L*W*H) — 106W*34.5W*28H.2MM -- 1 --	**Shenzhen Meevt Technology BWCDS-HCQ1-R28A4 Wi-Fi Sound-Control SPI Controller** [pdf] Instruction Manual MFN0817, 2A7VA-MFN0817, 2A7VAMFN0817, BWCDS-HCQ1-R28A4 Wi-Fi Sound-Control SPI Controller, BWCDS-HCQ1-R28A4, Wi-Fi Sound-Control SPI Controller