# Name：Mini Bluetooth Mesh RGB(W) Controller

# Products specification
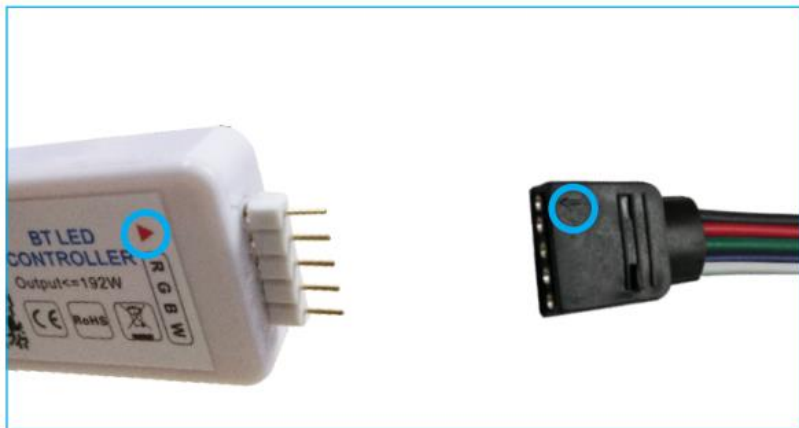


## Product Parameter:

This Bluetooth mesh RGB(W) Controller is a universal controller via Ios & Android device. Bluetooth 4.0 and the most advanced PWM (pulse width modulation) control technology have been adopted. 4 channels RGBW led lighting like Led strips light, LED module, LED light box can be suitable with it. Easy to install and use, memory function, indicate light show are the advantages of it.　Modes selection, brightness & speed adjustment and more are the nice functions. Dynamic mode like jump, fabe or stobe, do it as you wish.

## Technical Parameters

- Working temperature：-20-60℃
- Supply voltage：DC12-24V
- Output：3/4channel(in parallel)
- Connection mode：Common anode
- Controller Size：53mm*24mm*11mm
- New Weight：45g
- Static power consumption：<1W
- Output current：<4A/CH
- Output power：12V:<144W, 24V:<288W（RGB）/12V:<192W, 24V:<384W（RGBW）
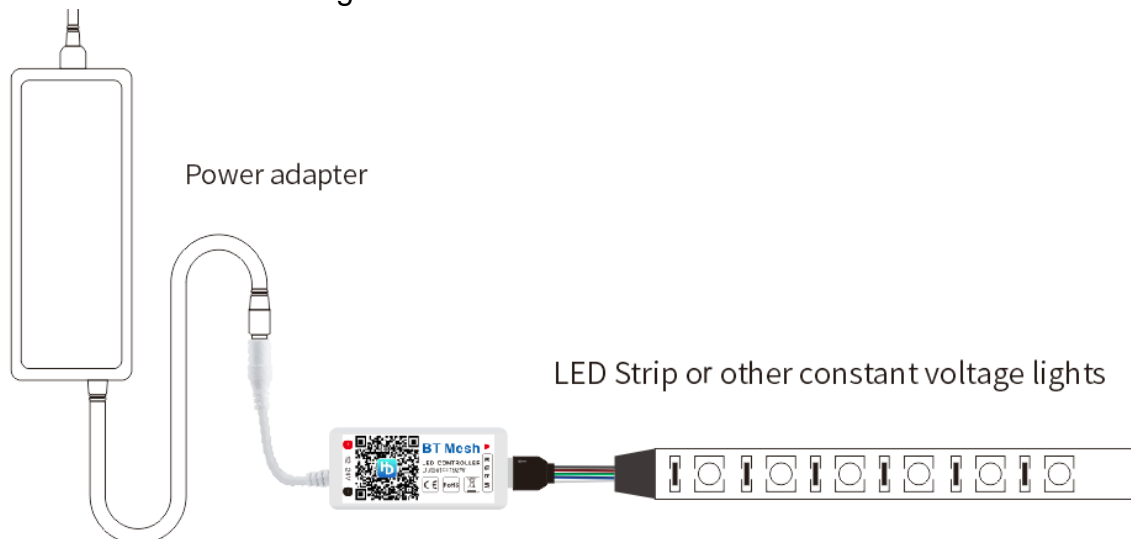
## Controller connection

1. It is necessary to ensure that the red arrow of the controller corresponds to the black arrow at the device end, otherwise the device will have a short circuit.

2. The connection between the controller and the power supply

3. Controller connection guidance

Power adapter

LED Strip or other constant voltage lights

## APP Function introduce

16 million colors and dimming
Language: Chinese、English、Japanese

DIY colors and save

Sequence adjustable, Built in two Interface for RGB/RGBW
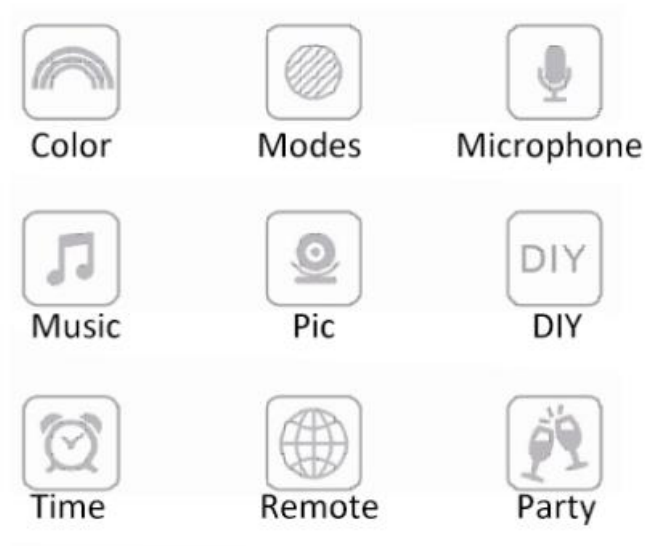
Time set

Dynamic modes.

Music mode*! listen to your music through your microphone and change the lights to the beat!

Remote control

Microphone control
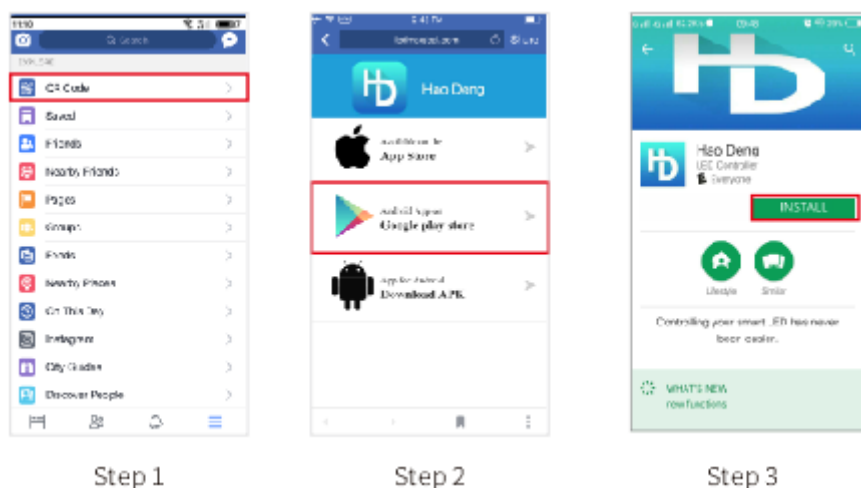
Picture color recognize, and change the lights color.



## APP Installation

1. Open QR Software then scan the below QR Code, then download & install it for free.
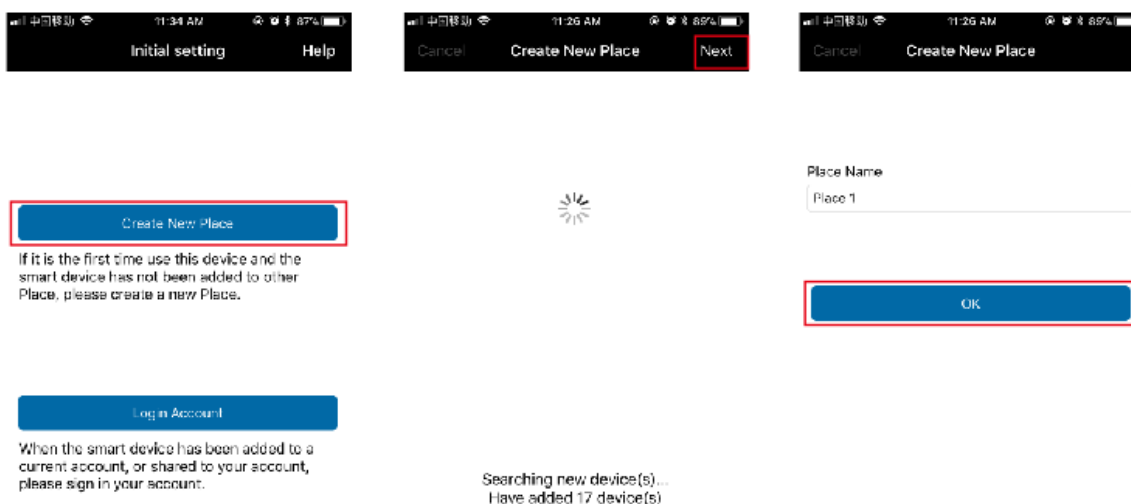
2. Installation details as below.
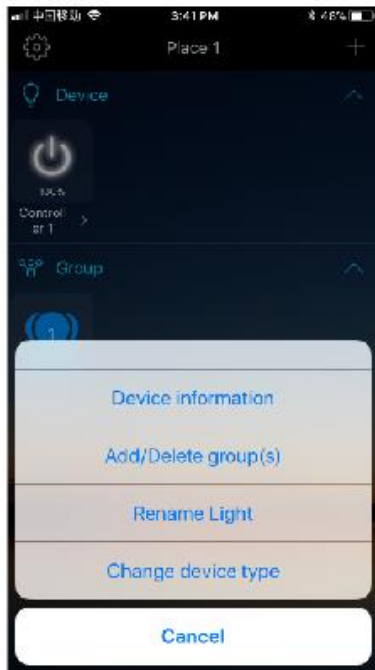


Step 1　　　　　Step 2　　　　　Step 3

# Instructions

a) Open the "Hao Deng" APP after it has been connected to the power supply and open the Bluetooth function on smartphone.



2. Click the device name or All Devices can control them individually or together.。

3.　Long press the device name can modify them individually.



4. Support 16 million color control and brightness adjustment

You can adjust both the color RGB(Red/Green/Blue) as well as the brightness of the color. It's likewise possible in this function to adjust and store 5 own created colors and brightness levels. You can save this, if you press long on the "DIY" button.
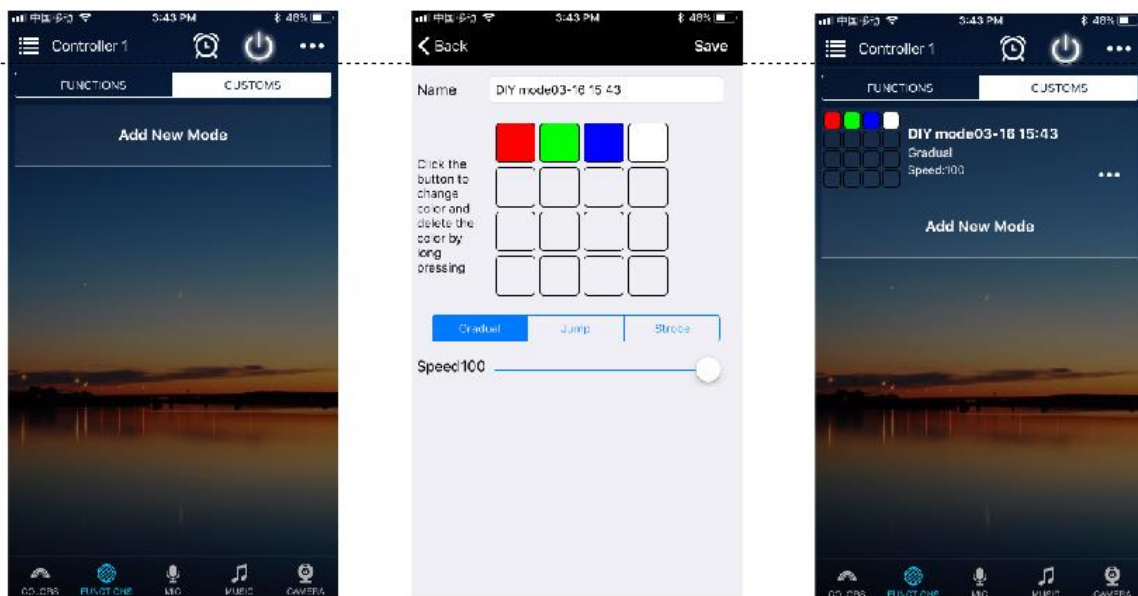
The adjusted color/brightness will be stored and displayed in the "DIY" button. You can recall the color/brightness if you press shortly on one of the five DIY buttons.

On the display top left, the individual channels R/G/B can be called separately and adjusted from 0-255 to obtain the desired color.



2. In DIY function, you can select your favorite colors and gradual, jump or strobe between the functions. Press the menu "customs" and then "Add new Mode". By briefly pressing one of the selection rectangles you can change the color. By pressing long, you can delete the color. It can

be defined in a sequence up to 16 different colors. After setting the color, speed and award of the user mode name, press "save" on the top right. Now you see your personal role in the selection mode. You can create unlimited changing modes and they can always be edited or deleted.
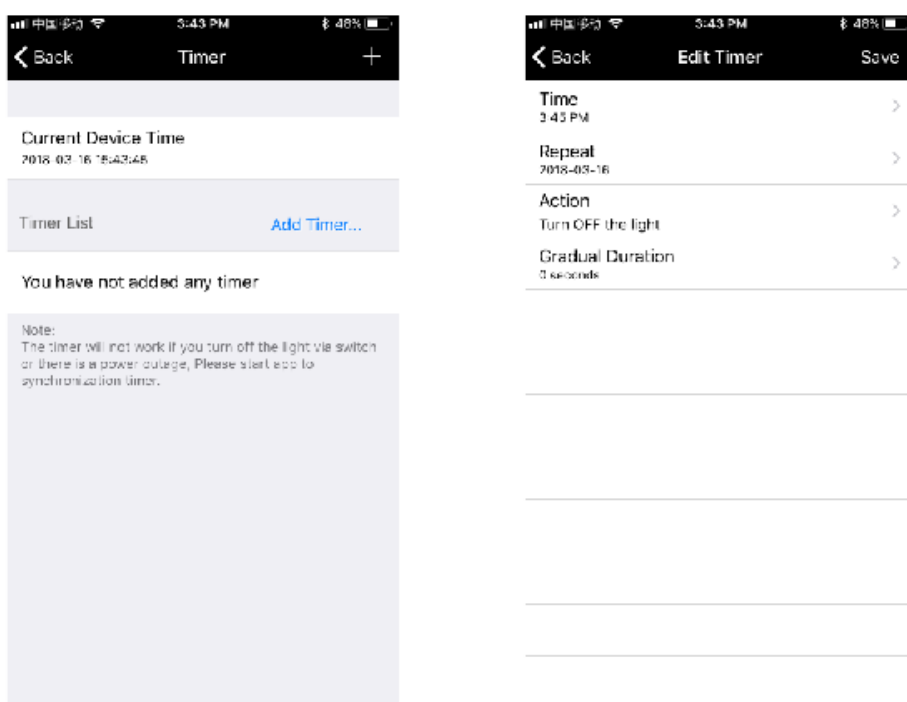
3. Group function

controllers (Hao deng) allows you to create different groups to control more than one controllers, for example, if you have 2 controller units, you can use one system in your living room & the other out on your patio. The grouping function allows you to either control these systems individually or to group them together as one unit.
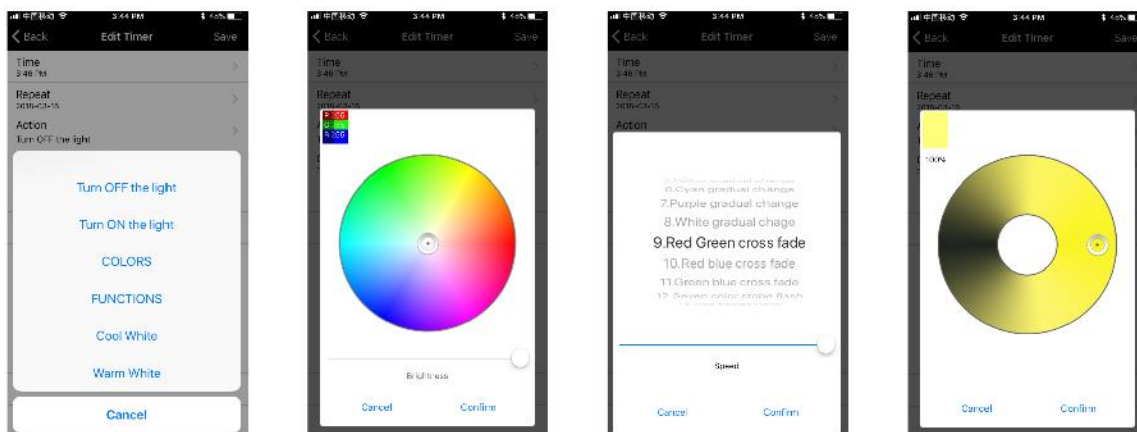
4. Light timer

You can have your lights automatically turn on or off in a specified time by setting up the timer.

5. The controller has a build in timer function. To do so, press on the top right, next to ON/OFF, switch the clock icon. Then the selection menu will be shown with time, Repeat (Mon-Sun),

ON/OFF switch and the optional Model (color setting, Brightness and gradient program.) The timer will not operate when the power supply is interrupted. In this case, start the APP to resynchronize.



## 6. Light and music rhythm synchronization function

In this function, you can let shine the connected LED in the rhythm of the music will be played on the smartphone or tablet. To do this, select the menu item "select music" and then select your music library on smartphone or tablet the desired music.

There are four main modes for four music styles: ROCK for rock & roll music

style, NORMAL for default music style, JAZZ for jazz music style, CLASSICAL for classical music style.

IOS system needs to download music files in iTunes or copy audio files from computer's iTune to iPhone. After then, you can select the music when you open APP music mode to synchronize the lights and music rhythm. The light color changes automatically with music rhythm.
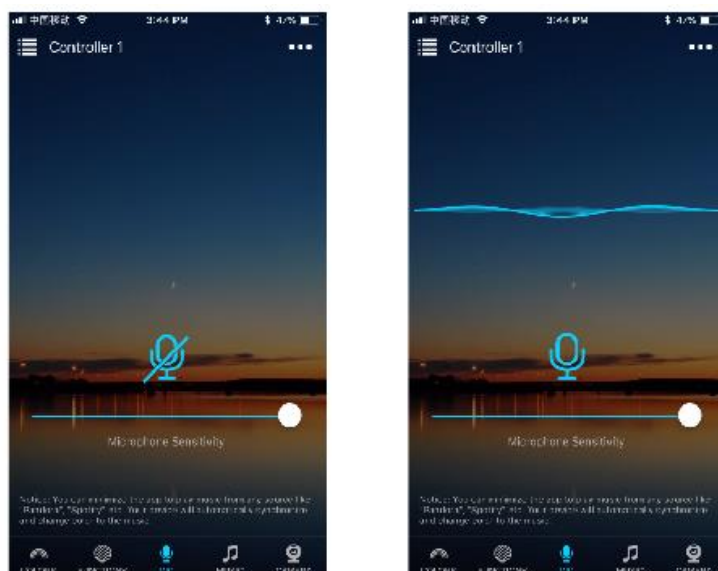
Android system needs to download the music files to the phone for use.

## 7. Microphone function
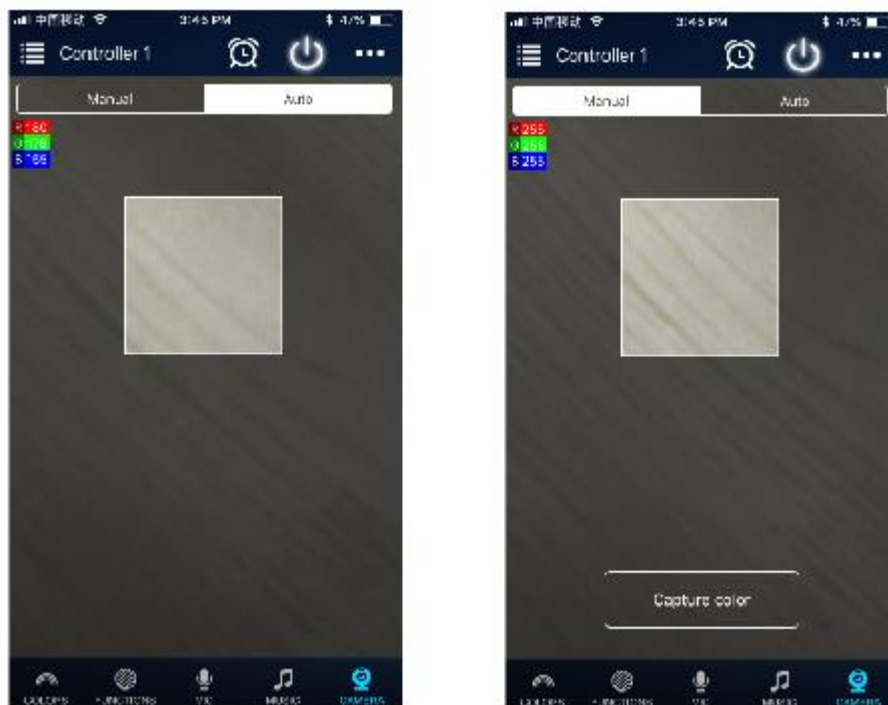
Click/ go to "Disco" interface of the APP.

In this function the connected LED light lights up depending on the volume/noise from the outside like a microphone. This also works when playing music or there is a noise from outside, the light will begin "dancing" base on different rhythm.

The microphone sensitivity can be adjusted by the slider.



## 8. Background color function of camera

In this function, you can select a color with the smartphone or tablet where you point the camera of your smartphone or tablet to an object. The selected color will be display from the connected LED light in the RGB spectrum. This can be done manually transmitted to the LED light with "Manual" "Capture color" or switch to "Auto" and the LED light will show immediately the color which has been selected on the camera.



# FAQ

1. Why the controller didn't appear in the Bluetooth list of phone setting?
    In order to ensure that the controller cannot be connected by others, Bluetooth controller won't appear in the setting list. Just open the APP with Bluetooth enabled and the controller will show up.

2. Why the controllers didn't appear in the app after I opened the phone Bluetooth?
    In order to ensure the privacy of the controller, the controller needs to be successfully connected with the phone within one minute after powering on. If more than one minute, please restart your controller.

3. How to reset your device?
    If you experience any issues with your smart device, try following the steps below to reset your devices and then add them back into your app.

    Power the device off (8 seconds)
    Power the device on (12 second)
    Power the device off (8 seconds)
    Power the device on (12 second)
    Power the device off (8 seconds)
    Power the device on (1 2second)

    Power the device off (8 seconds)
    Power the device on (8~12 second)

Power the device off (8 seconds)

Power the device on (8~12 second)

Power the device off (8 seconds)

Power the device on. If the light flashes 3 times and then change to 'bright up and fade gradually' mode, it has been successfully reset.

Note:

1). Once you reset your devices, they will no longer appear in your app and will need to be added again.

2). Make sure to perform the factory reset by switching on the power supply of the decvice instead of the APP.

4. Can multiple users control the same set of smart devices?

Yes. You and other people you share control with can log into the app on multiple devices and control the same set of smart devices.

5. Can I log into the app on multiple devices?

Yes, you can install the app and log in using the same account on multiple devices.

## ATTENTIONS

1. Please use the product in a dry environment.

2. Please use the input voltage at12-24V DC voltage, must not connect into 220V AC directly.

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