# Product Specification

**Name**：**High-voltage WIFI Controller**

**Model**：**WF103**

## Summarization

This product is a novel high-voltage plastic casing controller developed by our company, plastic casing is safe and beautiful in appearance. It makes the LED control more convenient, more humanized. We can use an Android system or IOS system mobile phone to install control software, then it can control LED, this is the wishes of every customer.

Use WiFi technology can make our control range more wider, can get rid of narrow space constraint, in building can control more than 50m, in outdoor can control more than 100m.

In the condition of not use the mobile software, also can use the remote control to control, very convenience, bring many choices for you.

## Technical parameters

**1. Remote control technical parameters**

Working temperature: -20-60℃

Power supply method: AAA*3

Supply voltage: 1.5V*3

Standby power: 0.015mW

Standby current: 3uA

Working current: 200uA

Emission current: 10mA

Remote control distance: about 20m

Standby time: 6 month

**2. Software technical parameters**

Name: Dream Color

Runtime platform: Android version support Android system(better one can support Samsung, HTC), IOS version support IOS system, equipment must have WiFi function.

Byte: Android version(622K)、IOS version(581K).

Language: English

Category: communications

Free, green, no plug-ins

**3. Controller technical parameters**

Working voltage: AC90-240V

Output voltage:DC90-240V

Output current: 1A*3CH

Output control: can flexible control 3 channel, 2 channel, 1 channel LED lamps.

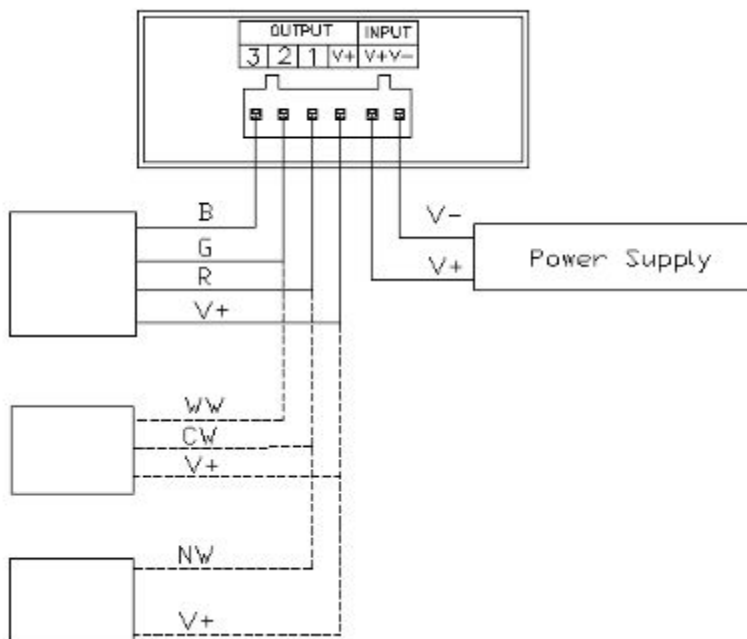Connect mode: common anode

External dimension: L145*W140*H27（mm）

Receiving sensitivity: 802.11b DSSS(-5dBm)，802.11b CCK (-10dBm)，802.11g

OFDM(-15dBm)

## Interface specification

Input voltage range is AC90-240V, output voltage is decided by input voltage, range is DC90-240V.



## Dream Color instruction

### 1. Dream Color install course

This software have Android version and IOS version, according to your mobile phone to choose to install, below respectively introduce Android version and IOS version install and use method:

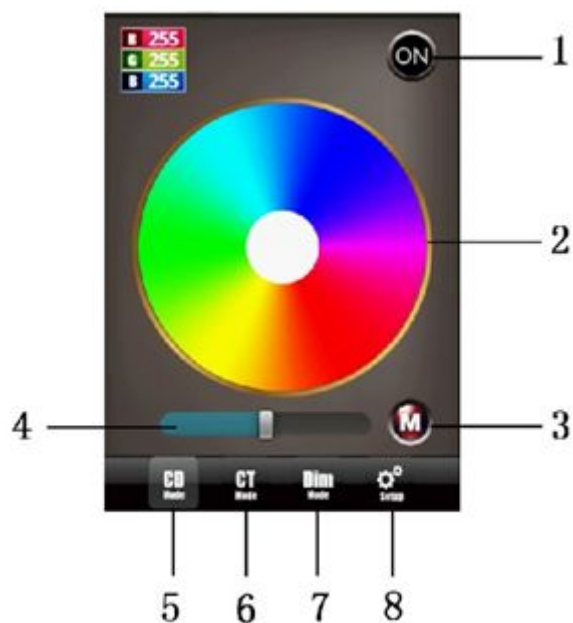(1) Android version install as below:

Open the optical disk can see the Dream Color installation program



, click it to install the software. Once the installation is



complete, click     ,open application

1. On Off key      2. color disk      3. mode key      4. speed/brightness bar

5. RGB mode LED control window

6. Cold white and warm white mode LED control window

7. Dimmer mode LED control brightness window

8、Dream Color software setting window

Following is control color temperature and brightness two mode page:
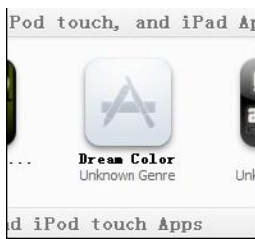
CT mode page(cold warm white mixed mode)     DIM mode page(dimmer mode)

(2) IOS version install method:(not escape or escape all can suit) can enter "app store" search Dream Color. Then it can find our software(below scheme just limit after escape)

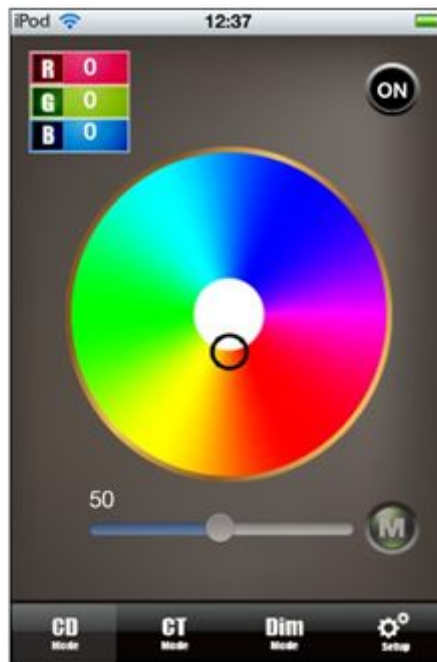or open itunes,  make our installation package

dragged into itunes, as picture  , click it   to install. Once installation
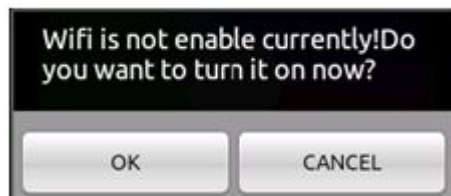
is complete, click  , open application(same with Android version).

## 2. WIFI network

If you open Dream Color show like below picture: prompt to choose"OK", jump to WiFi setting interface connect WiFi LED controller. Or choose "cancel" don't jump, then setting SIMULATION is ON, it will change to do not connect controller node, diagram form as below:
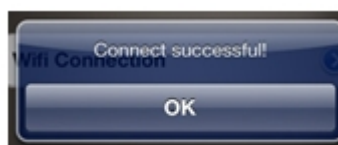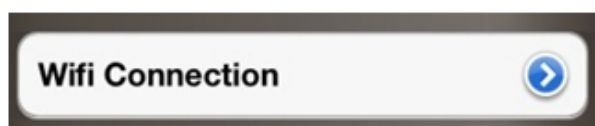


choose proceed wifi setting window



Finished setting, if pop up below window:



indicate connect succeed



open wifi connect setting

prompt connect correct wifi equipment.

**3. ON/OFF Key**

ON/OFF, before control LED, open on/off key. Click OFF close LED equipment.

**4. Mode Key Function**

Mode key under 3 mode page is entirely different, under CD mode page to control LED dynamic work mode, under CT mode page to control several kinds of special color temperature state, under DIM mode page to control several kinds of special brightness state.

**5. Color disk instruction**

Color disk under 3 mode page, the function is entirely different: under CD mode page is used for adjust color, under CT mode page is used for adjust color temperature, under DIM mode page is used for adjust brightness.

**6. CD mode page control function**

CD mode page is used for control LED product which consist of red,green,blue, under this mode page, every time after touch the mode key"M", the lighten way will change. "M" is used for setting LED dynamic effect. Color disk touch point change will make the LED color changed.

**7. CT mode page control function**

This mode page is used for control LED product which consist of warm white and cold white. Brightness bar is used for setting the LED brightness, color disk adjust LED color temperature, mode key is used for choose some kinds of default special color temperature value.

**8. DIM mode page control function**

DIM mode page is used for control LED product which consist of single color, color disk is used for adjust LED brightness, mode key"M" is switch some special brightness state(for example: 25% brightness, 50% brightness, 75% brightness, 100% brightness)

**9. Speed/brightness bar instruction**

Speed/brightness bar under different mode page is different: under CD mode page, different situation separately control brightness and speed, under CT mode page, it is control brightness.

**10. Setup mode function**

The last is Setup touch key, it have SIMULATION, SOUND and WiFi CONNECTION 3 options, SIMULATION is mainly used for set software imitate and actually connect LED-WiFi controller to choose, if choose ON state, do not need to connect LED-WiFi controller, it can used for software demonstrate, imitate demonstrate, ect. Practical application need to set OFF(actually, when you connect WiFi, the software have automatic set to OFF), SOUND is the prompt tone of click the software switch, WiFi

CONNECTION is used for jump to wifi network setting interface proceed wifi connection.

## LED-WiFi Controller Function Instruction

### 1. Setting SSID number
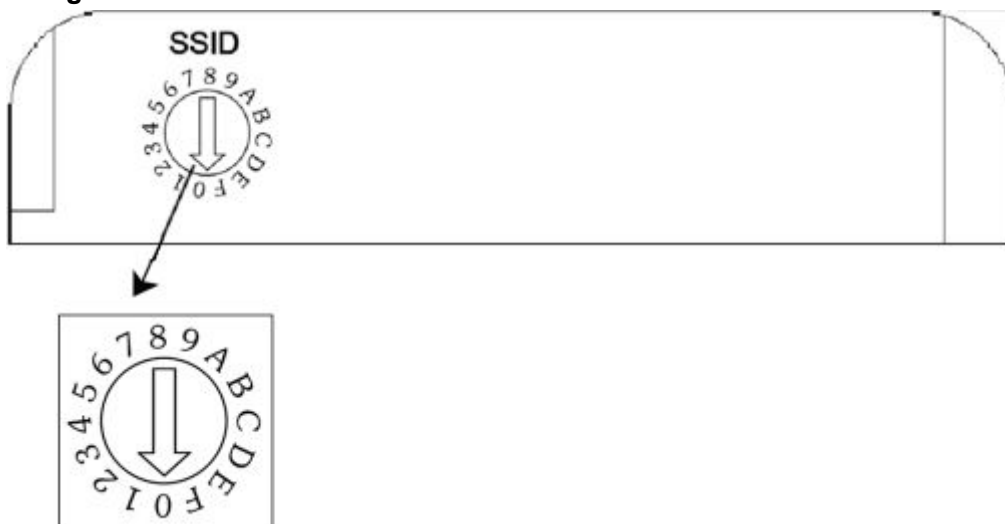
The dial code is used for setting LED-WiFi controller ssid number, corresponding table as below. Form 0 to 15, have 16 code in total, so our ssid number fasten to LN001 to LN016. That means use our product in same small area can set 16 mutual isolation LAN, once the dial code changed after switch was dialed, ssid number immediately be modified, so you need to note that it need to search and connect again.

| code | SSID |
|------|------|
| 0 | LN001 |
| 1 | LN002 |
| 2 | LN003 |
| 3 | LN004 |
| 4 | LN005 |
| 5 | LN006 |
| 6 | LN007 |
| 7 | LN008 |
| 8 | LN009 |
| 9 | LN010 |
| A | LN011 |
| B | LN012 |
| C | LN013 |
| D | LN014 |
| E | LN015 |
| F | LN016 |

## 2. Connect LED, Power supply port

LED port under CD mode page need to connect RGB 3 channel LED equipment, under CT mode page need to connect cold white and warm white 2 channel LED equipment group, under DIM mode page need to connect single color LED equipment.

## 3. Remote control function instruction
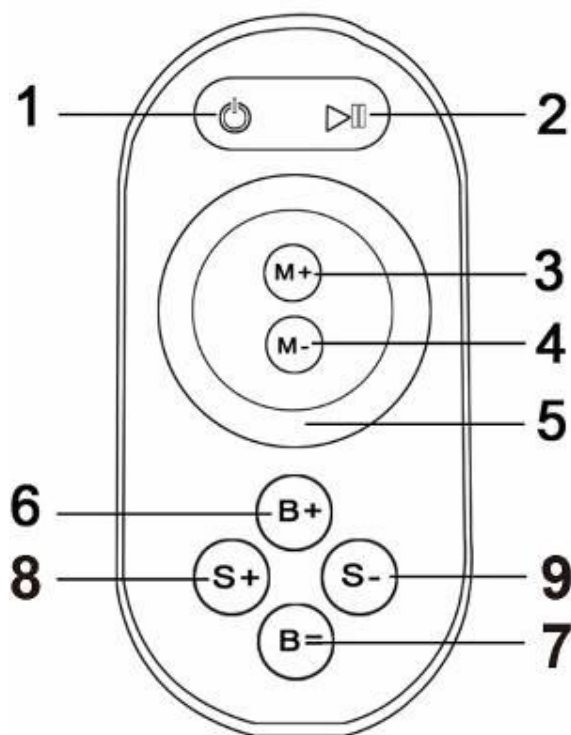


1. on/off key    2. pause key       3. mode+     4. mode-
5. Color pulley key       6. brightness+      7. brightness-
8. speed+       9. speed-

1. Touch remote panel have 64 touch button(point), each button function as below:

1. on/off key, any state, can turn on or turn off controller output;

2. pause key, under dynamic mode, can make the controller stop current state;

3. this key have 2 function:

①mode add key, so when the current control mode is pulley mode(color), if it need to realize the mode(color) in controller, can press this button.

②mode switch key, so when the current control mode is M key mode, can switch the regulation mode(color) in M+ key mode table.

4. This key have 2 function:

①mode minus key, so when the current control mode is pulley mode(color), if it need to realize the mode(color) in controller, can press this button.

②mode switch key, so when the current control mode is M key mode, can switch the regulation mode(color) in M- key mode table.

5. output brightness control key, every time you press this button, the brightness series add 1, altogether 100 levels;

6. output brightness control key, every time you press this button, the brightness series minus 1, altogether 100 levels;

7. output speed control key, every time you press this button,the speed series add 1, altogether 100 levels;

8. output speed control key, every time you press this button,the speed series minus 1, altogether 100 levels;

9. Color pulley touch button, static mode choose key, up to 55 touch point. This key have 2 function:

①pulley static color choose button, so when the current control mode is M key mode(color), if need to realize the static color on pulley, can press this button.

②pulley color switch key: can switch from 55 static color(pulley shows color).

2. Power management: Stop using remote control more than 20 s, remote control will automatically into standby mode(the state can not touch), to extend the battery life for use; shake the remote mildly remote return to work station(the state can touch).

   Remark: This remoter just apply to RGB model.

### 4. Built-in mode form of controller

1. The mode form of RGB Control:

| Mode number | function | remark |
|---|---|---|
| 1 | Static red | Brightness is adjustable, Speed is unadjustable |
| 2 | Static green | |
| 3 | Static blue | |
| 4 | Static yellow | |
| 5 | Static purple | |
| 6 | Static cyan | |
| 7 | Static white | |
| 8 | Three-color jumpy changing | Speed is adjustable, Brightness is unadjustable |
| 9 | Seven-color jumpy changing | |
| 10 | Three-color gradual changing | |
| 11 | Seven-color gradual changing | |

2. The mode form of color temperature control:

| Mode number | function | remark |
|---|---|---|
| 1 | CW | Brightness is adjustable |

| | | |
|---|---|---|
| 2 | 80%CW | |
| 3 | 60%CW | |
| 4 | 40%CW | |
| 5 | 20%CW | |
| 6 | PW(pure white) | |
| 7 | 20%WW | |
| 8 | 40%WW | |
| 9 | 60%WW | |
| 10 | 80%WW | |
| 11 | WW | |

3. The mode form of dimming Control:

| Mode number | function | remark |
|---|---|---|
| 1 | 1% | |
| 2 | 10% | |
| 3 | 20% | |
| 4 | 30% | |
| 5 | 40% | |
| 6 | 50% | Brightness proportion is adjustable |
| 7 | 60% | |
| 8 | 70% | |
| 9 | 80% | |
| 10 | 90% | |
| 11 | 100% | |

**Typical Application**

**1.Connect three channels LED instruction**

When connect three channels LED, you should put the Dream Color software switch to CD mode to use, only under this mode, you can control the LED's color, brightness and speed. Color disk adjust the color(Adjust process can be seen in the upper left corner R, G, B numerical with change), speed/brightness item adjust speed and bright("M" set the
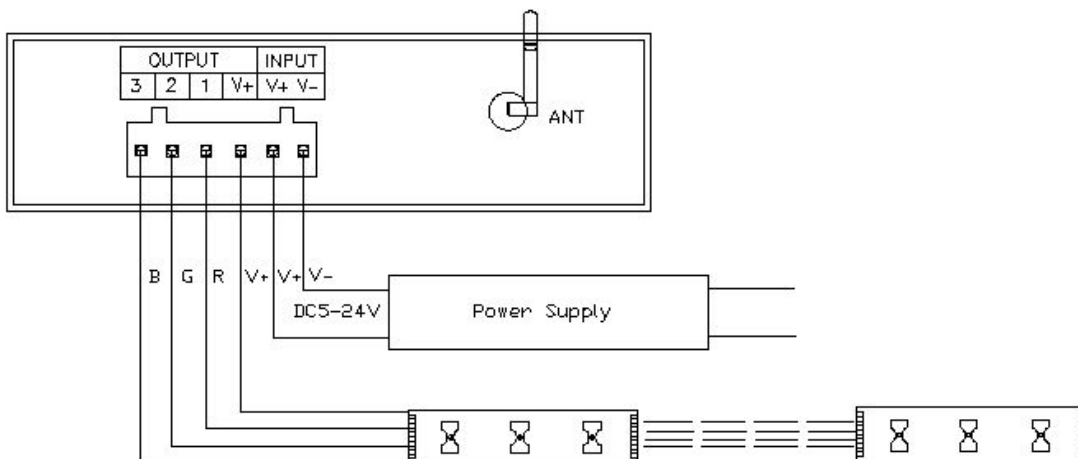
LED dynamic effect, "M"adjust the LED dynamic change.

**2. Connect two channels LED instruction**
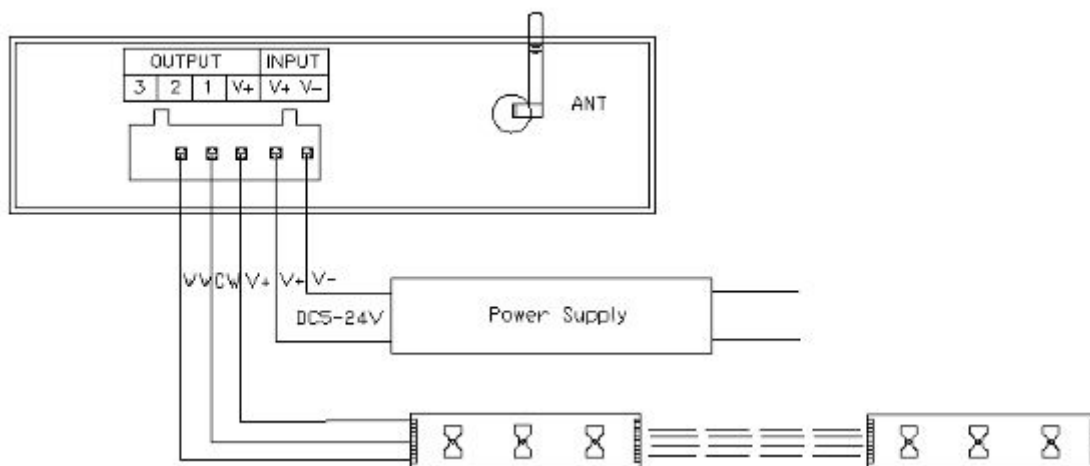
When connect two channels LED, you should put the Dream Color software switch to CT mode to use, only under this mode, you can control the LED's color temperature, brightness and color temperature shortcut key settings.Color disk adjust the color temperature(meanwhile top left CW,WW numerical with change), brightness item adjust bright, "M" key set the special color temperature state.

### 3. Connect one channel LED instruction
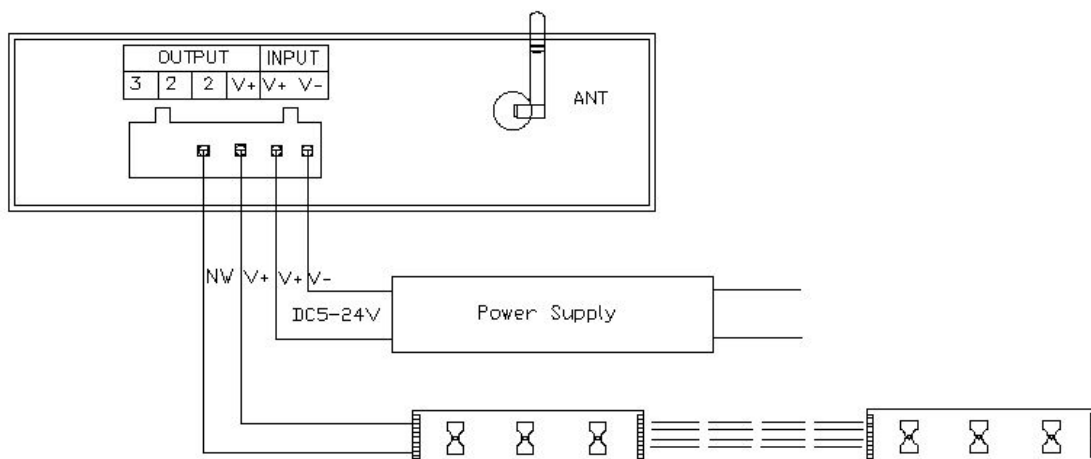


DIM mode to use, under this mode, use color disk control the LED's brightness, adjust process can be seen in the upper left corner NM numerical with change.