Product specification

Name：WiFi Multi point Controller（constant voltage Slave）

Model：WF201

Product Summarize

1. Product constitute

1.WiFi-LED Controller（slave）	It is the core of product, responsible for receive control signal and control LED equipment.
2.A manual	Product use methods detailed instructions

2. Product summarize

LED-WiFi controller is following the traditional with infrared, RF technology controller foundation, it is birth of market and customer's demand, it is one type controller which integration the newest wifi technical in the market. It makes the LED control more convenience, more hommization. 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.

WF201 is a node controller of multipoint control system, it is received the signal from master, carry out synchronization control, the single point control.

3. Controller technical parameters

- Working voltage: DC5--24V
- Working temperature：-20-60℃
- Power consumption:<1W（12V）
- Output::3 channel(common anode),4A/CH
- Packing dimension:L215*W165*H55(mm)
- External dimension:L107*W65*H30（mm）
- Net weight:270g
- Gross weight:347g

Controller Use Instruction

1. Working state instruction

| Indicator light	Function table
Power	Power indicator light, long-time bright shows power supply normally
Signal	Flashing When a master and slave communication

2. Connector instruction
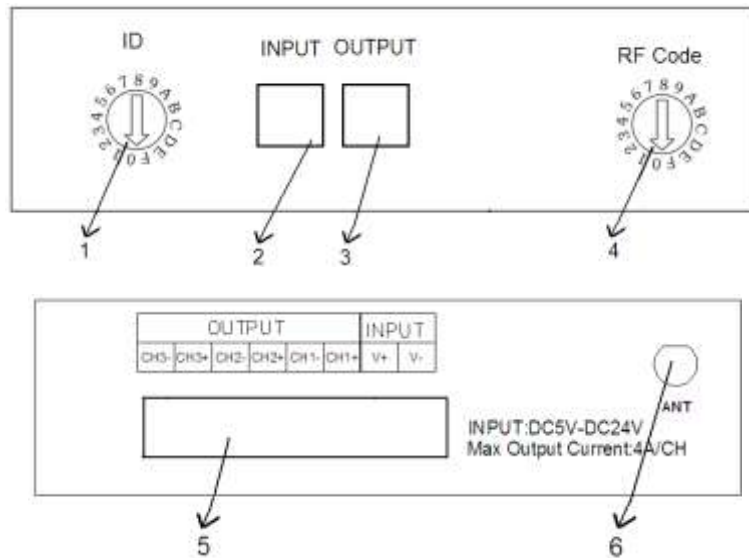
1. Slave controller ID

　　Slave controller ID setting, total 16 ID from 0 to F, The master controller can control alone to each ID or the whole control to all ID . The ID must be unique if need to carry out control alone,or will be simultaneous control with the same ID.

2. Signal input

　　Receive the wired control signal from the master controller ,when cable access, wireless control is invalid.
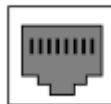
Definition:
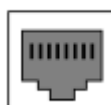
Number	Function
1	A（Data+）
2	B（Data-）
3	-
4	-
5	-
6	-
7	GND
8	GND

3. Signal onput

　　Amplify and transmit the master control signal to slave controller.

Definition:

Number	Function
1	A（Data+）
2	B（Data-）
3	-
4	-
5	-
6	-
7	GND
8	GND

4. Slave controller receive frequency setting

Slave controller receive frequency setting, this frequency must be the same as the master setting, or else can not receive wireless control signal.This dial-up is invalid when connect the wire signal.

5. Input and output

The input voltage depend on the load voltage,but must be within DC5-24V, overhigh voltage would be burn out controller.The output way depend on lamps type.The controller is apply to RGB Lamps,color temperature lamps and single lamps, detailed description please refer to the typical application circuit.

6. Antenna

Master wireless signal receiving antenna.

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 and brightness are adjustable
9	Seven-color jumpy changing	Speed and brightness are adjustable
10	Three-color gradualchanging	Speed and brightness are adjustable
11	Seven-color gradual changing	Speed and brightness are adjustable

2. The mode form of color temperature control:

Mode number	function	remark
1	CW	
2	80%CW	
3	60%CW	
4	40%CW	
5	20%CW	
6	PW(pure white)	Brightness adjustable
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%	
7	60%	Brightness proportion
8	70%	
9	80%	
10	90%	
11	100%	

Explain installed hardware

1. Install ANT
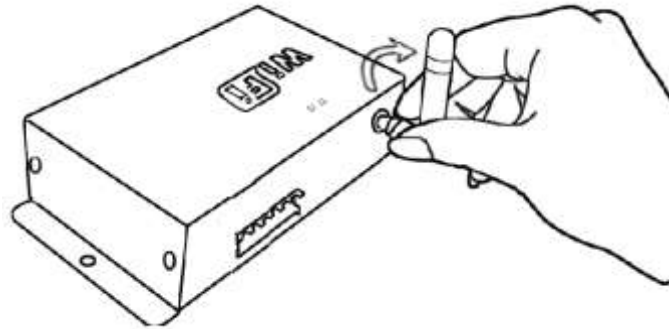
ANT's installation drawingclockwise install WIFI antenna and anticlockwise take down the antenna.

2. Install power supply and LED equipment

This connector structure belong to drawer structure, the device interface of power supply and LED is together, four interface one the left side （3、2、1、V+）is connect led equipment,the fifth interface is connect the anode V+ of power supply, the sixth interface is connect the cathode V_ of power supply. According to the rated voltage of led lamp, we supply power to controller ,and the rated voltage of controller is 24V. As follows:
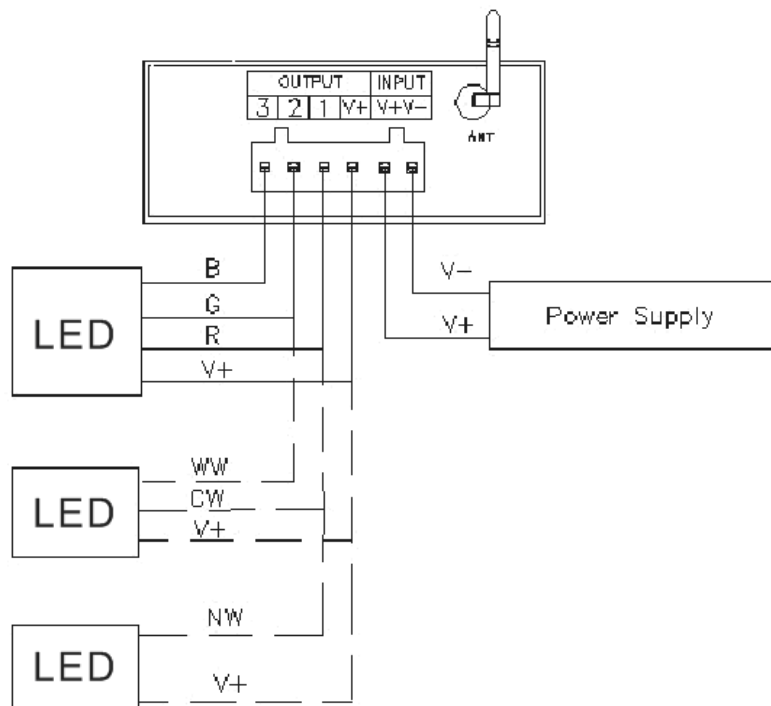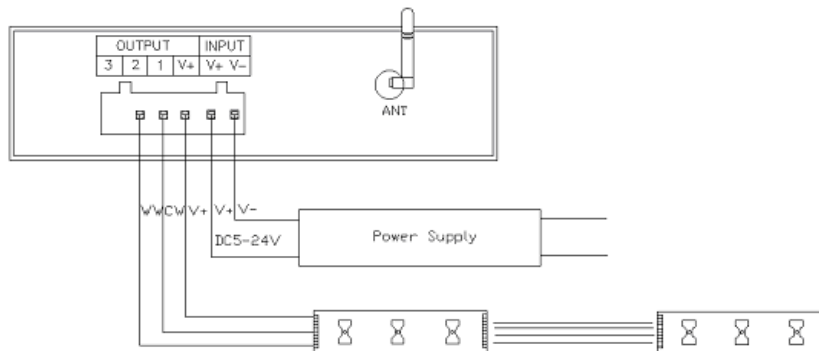

3. Connect RGB lamp instruction
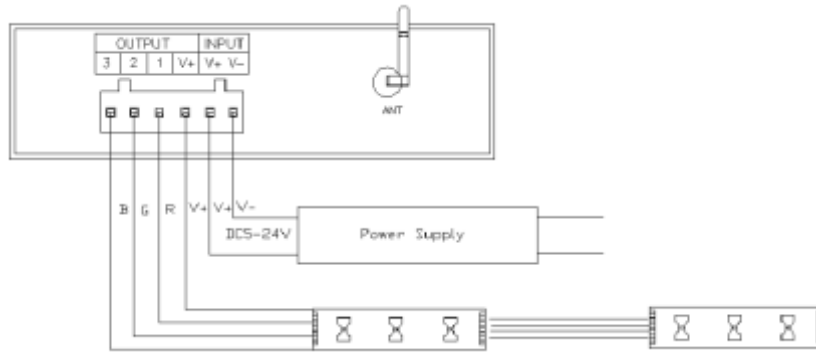
When connect three channels LED, you should put the Magic Color 1.0   software switch to CD mode to use,only under this mode,you can control the LED's color,brightness and speed.Color disk adjust the color(Adjust process can be seen in the upper left corner R, G, B numerical with change),speed/brightness item adjust speed and bright("M"set the LED dynamic effect,"M"adjust the LED dynamic change.

## 4. Connect color temperature lamps instruction

When connect three channels LED, you should put the Magic Color 1.0 software switch to CD 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.

5. Connect single color lamps instruction
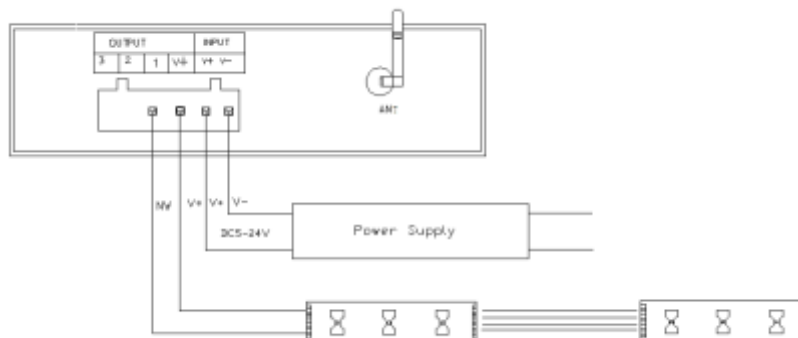
When connect one channel LED, you should put the Magic Color 1.0 software switch to DIM mode to use,under this mode,use color disk control the LED's brightness,Adjust process can be seen in the upper left corner NM numerical with change.

System application figure
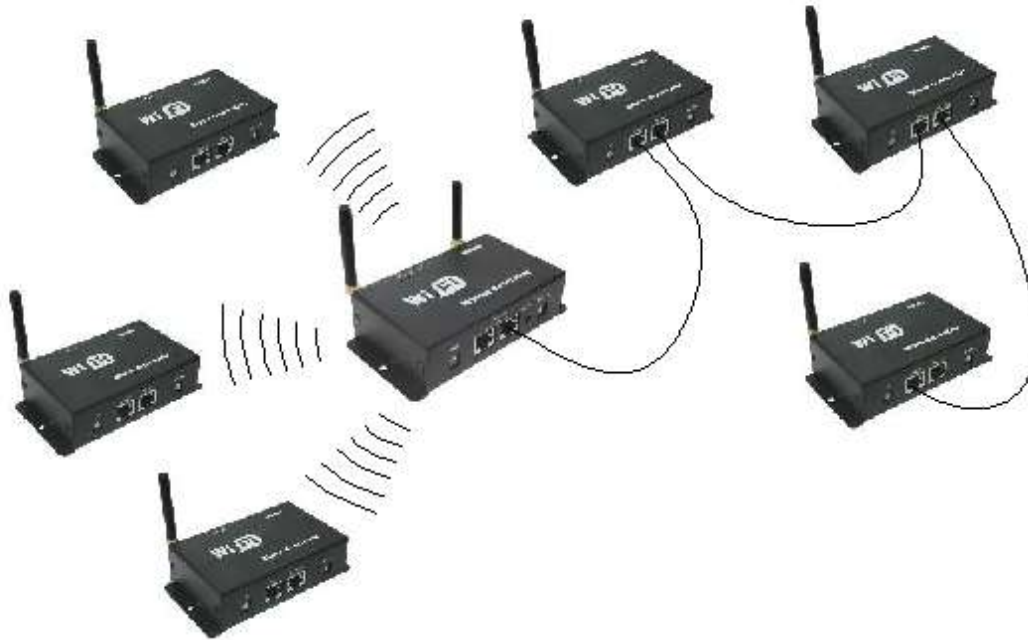
Notice: when use the wireless control, in order to achieve the best effect, the master should be placed in each slave control center position.