LD1051518- DIM/CCT/RGB/RGBW

DIM series led controller for DIM/CCT/RGB/RGBW with BT15 remote control (OPCIONAL)
Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling constant voltage LED lamps. For instance, point source of light, flexible light strip, led modules, led strings and so on; it is integrated 4 optional programs for different color type LEDs, contains single color/CW+WW/RGB/RGBW. It means only one item stock for 4 types applications.

1. Features:

1) Easy-going products set for small application;

3) Easy to access and store with magnetic suction;

4) Circular knob design, unique interface and easy operation;

5) Functions: ON/OFF, dim function, colors, dynamic modes;

6) Adopts RF 2.4GHz wireless control, remote control distance up to 30m and no directional;

7) 4 in 1 receiver, 1 item for 4 types led strips;

8) Output current: 4ch*4A(DIM), 4chs*4A(CCT), 3chs*5A(RGB), 4chs*4A(RGBW).

## 2. Technical Parameters

| Working temperature	-20-60 ℃	Supply voltage	DC12V-24V
Static power consumption	<1W	Connecting mode	Common anode
Grayscale	1024 levels	Speed stage	1024 levels
External dimension	L70*W40*H20 mm	Packing size	L95*W47*H33mm
Net weight	65g	Gross weight	80g
RF frequency	2.4GHz	RF distance	≤20m
Short circuit protection	Yes	Memory function	Yes
Output	4 channels	Output current	≤4A(each channel)
PWM frequency	1KHz	Max. Output power	12V:<192W, 24V:<384W

Dimensions

20mm
40mm
70mm
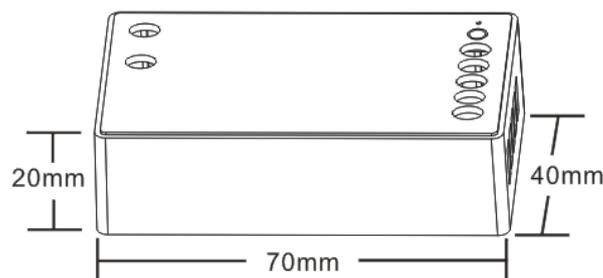
Interface Specifications
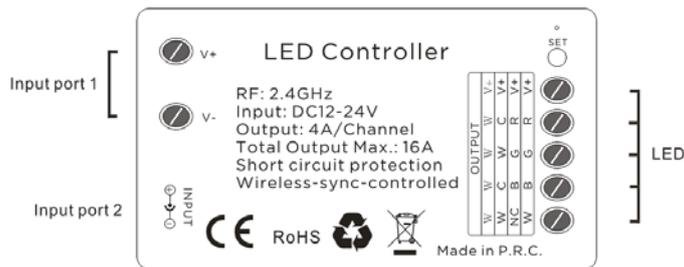
3. Direction for use

Step 1: Connect the load wire at first, followed by the power wire, please ensure short circuit can not occur between wires before turning on the power;

Step 2: Setting the type of output as blow, please ensure the indicate light in correct color according to the loading LED's type:
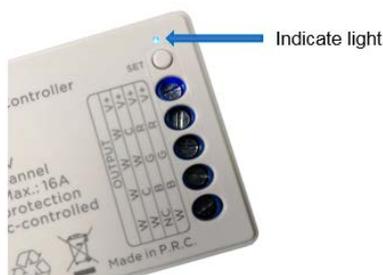

| Indicate light color	Red	Yellow	Blue	Green
Loading LED's type	Single color	CW+WW	RGB	RGBW

(Indicate light color & output type)

Step 3: Matching the code with remote. Before matching the code, receiver can be controlled by any remote control in any zone (the functions are according to receiver's output type which was set in Step 2). Matching code operation will achieve unique-control. Please read "About RF code" part for operation instruction.
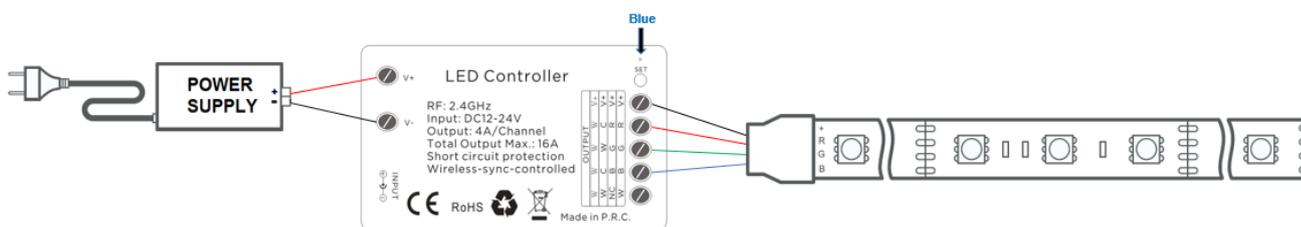
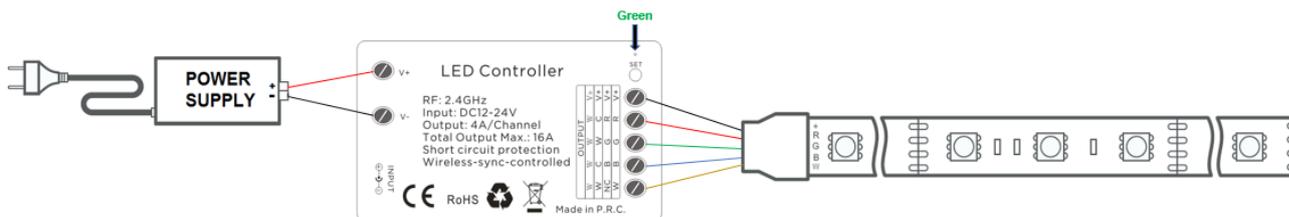## 4. Typical Applications

Application Circuit 1: Single color
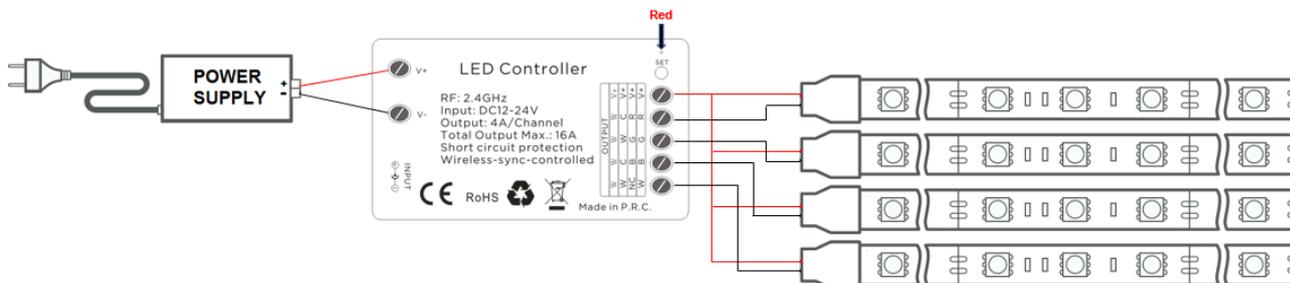
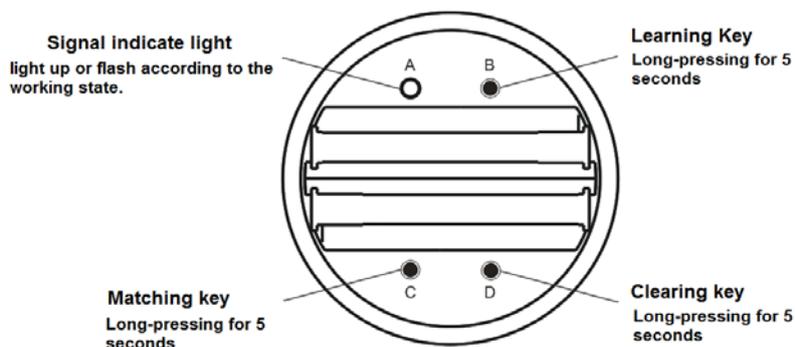Application Circuit 2: CW+WW
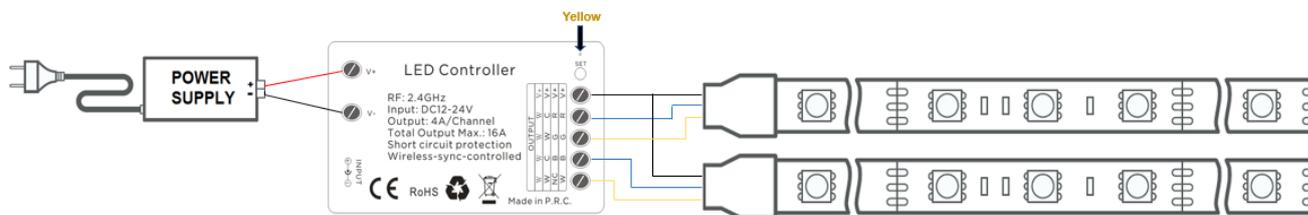
Application Circuit 3: RGB

Application Circuit 4: RGBW

5. Wireless remote control code value setting method

The number of controllers and remote controls in one system is unlimited. 2.4G Smart system has one unique RF code for communication. Each controller and each remote control can remember only one RF code, recorded in the first programing. New RF code can be recorded after delete the old one.

Signal indicate light
light up or flash according to the working state.

Learning Key
Long-pressing for 5 seconds

Matching key
Long-pressing for 5 seconds

Clearing key
Long-pressing for 5 seconds

Code matching operation: the receiver will only be controlled by the value code remote control.

Step	Operation	Instructions
1	Connecting the load to the receiver and power on it.	1.It is necessary to clear the code first, if the receiver was coded before. 2.Batch operation can be performed within the remote control range. 3. Please remember to cut off other un-code zones power, or will be paired together.
2	Press and hold "C" on the remote control for 5 seconds	The indicator of the remote control will flash quickly, see the load light flashes 3 times and return to the initial state, means matching coding is finished successfully
3	Press any key to exit and end the operation	Also will automatically exit code transmission status after 60 seconds

Code clearing operation: that the original code value of the receiver will be cleared and returned to the factory state. Then it can be controlled by any compatible remote control, also can be paired to a new code.

Step	Operation	Instructions
1	Connecting the load to the receiver and power on it.	1. The clearing operation should be finished within 1 minute after the receiver is powered on. 2. Batch operation can be performed within the remote control range.
2	Press and hold "D" on the remote control for 5 seconds	1. The indicator of the remote control will flash quickly, see the load light flashes 3 times and return to the initial state, means pairing coding is finished successfully. 2. If the original remote control is lost, the new remote control can be used for clearing operations.
3	Press any key to exit and end the operation	Also will automatically exit code transmission status after 60 seconds.

Code learning operation between remote controls: Used to unify system code values or copy a new remote control.

Since each remote control has its own unique RF code at the time of delivery, when there are multiple remote controls in one system, one of them must be selected as a main, and other remote controls should copy its RF code.

1) **Main** remote control: Press and hold **"C"** key for 5 seconds. The indicator of the remote control will flash quickly, means it enters the pairing code transmission status.

2) **New** remote control: Press and hold **"B"** key for 5 seconds, indicator will turn from 100% to off means it enters learning code status.

3) Indicator of the new remote control flash three times after successful code learning.

Remote control RF code learning from controllers

1) Turn off the power supply of the controllers.

2) Press and hold **"B"** key for 5 seconds until indicator of remote control turns off.

3) Turn on the power supply of the controllers. Indicator of the remote control flashes three times after successful code learning.

Note: The distance from controllers to remote controls should be less than 2 meters.

Restoring factory settings of remote control

1) Press and hold "**B"** key for 20 seconds until indicator of remote control process the state as 100% -off-100%.

2) Press **"D"** button to submit and finish the operation. Indicator of the remote control will flash three times after successful operation.