**RF 20 key LED RGB Controller**

20-key RF controller adopts the advanced micro control unit, it is used for controlling a variety of LED light. For instance, point source of light, flexible light strip, wall washer lamp and so on. It has many advantages such as good appearance, easy connection and simplicity to use. Adopts RF 20 key remote control to ON/OFF, choose colors, change dynamic modes. Especially, it is designed with synchronization function. It is convenient to use RJ45 connector to connect the multiple controllers together, and achieve the synchronization function of thousands meters led strips. In theory, they can be connected numerous.
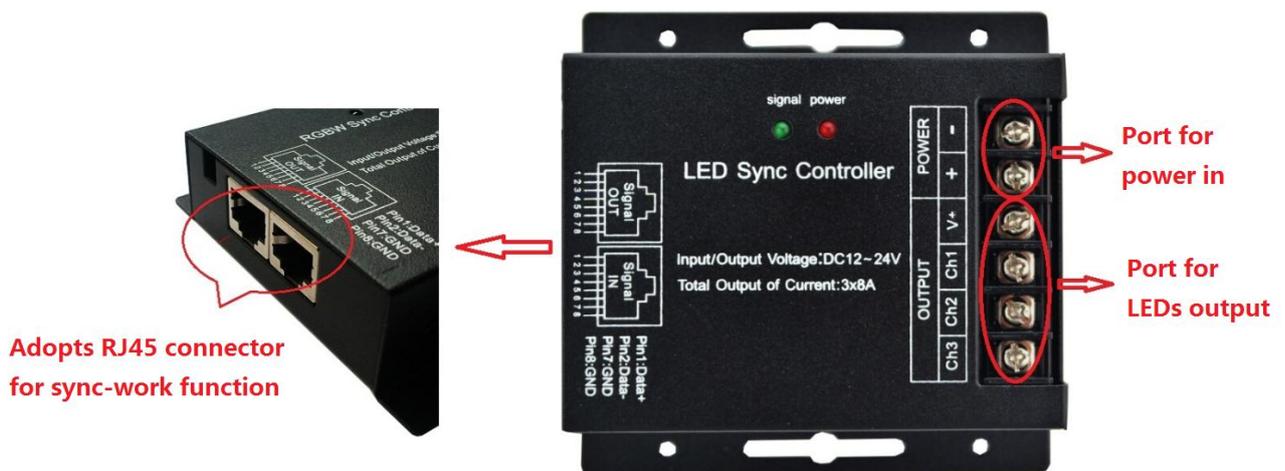


## Product Features:

- Designed for RGB constant voltage LED lights, Max.output:3*8A.
- Working voltage DC12-24V, it can be universal in this range.
- Adopts PWM digital technology, signal frequency: 400Hz.
- Multiple controllers can work synchronically when connected by network cable through the RJ45 connector, the network cable between 2 ports up to 80 meters.
- RF 20-key wireless remote, RF frequency: 433.92MHz.
- 14 modes in total, including 8 static colors and 6 dynamic changes.
- Warranty of this product is one year, exclude the artificial situation of damaged or overload working.

## Technical Parameters

| | |
|---|---|
| Working temperature | -20-60℃ |
| Supply voltage | DC5V, 12V~24V |
| Output | 3 channels |
| Connecting mode | common anode |
| External dimension | L91*W88*H24 mm |
| Packing size | L108*W108*H50 mm |
| Net weight | 210g |
| Gross weight | 240g |
| Static power consumption | <1W |
| Output current | <8A(each channel) |
| Output power | 5V:<120W,   12V:<288W,   24V:<576W |

## Interface Specifications



Adopts RJ45 connector for sync-work function

Port for power in

Port for LEDs output

RGB Connection：V+→COM、CH1→R、CH2→G、CH3→B.

## Direction for use

- Connect the load wire and sync-signal cable at first, following by the power wire.
- Ensure short circuit can not occur before you turn on the power.
- Adopt RF wireless remote control, 20 keys in total, function of each button as below：

| Brightness + | Brightness - | pause | on/off |
|---|---|---|---|
| Static red | Static green | Static blue | Static white |
| Static white | Static yellow | Static cyan | Static purple |
| Auto run | three base color jumpy | Three color gradually change | speed + |
| Flash | seven base color jumpy | Seven color gradually change | speed- |

## RF CODE

Receiver can be controlled by any one the same remote as factory default; remote control delivered with unique RF code as factory default; if unique-control is needed, please matching the code before installation and using.

**Matching code operation**

Driver and Remote Control are coded as default, matching them before using,if unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instruction before using:

1.**Step 1**: Pressing key "FLASH" and hold on, power on the controller, the load LEDs will be 50%　brightness white as responding.

2.**Step 2**: Pressing " DELAY OFF" 3times in 3 seconds ,corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.

3.Code learning successfully, the receiver only can be controlled by the remote.
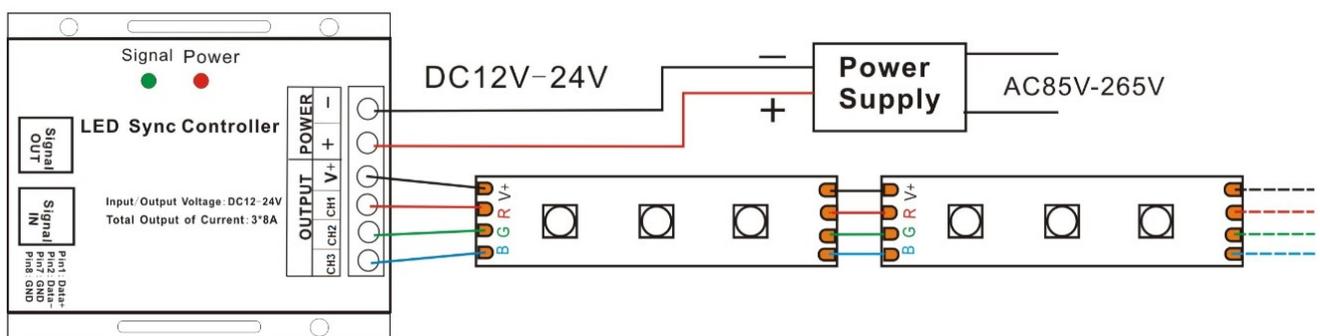
4.If not, please re-operate from step 1 to 2.

**Clear code operation**

Back to factory default, wall-panel can be controlled by any one the same remote control.

1.**Step 1**: Pressing key "FUN" and hold on, power on the controller, the load LEDs will be 50%　brightness white as responding.

2.**Step 2**: Pressing " JUMP7" 3times in 3 seconds ,corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.

3.Code learning successfully, the receiver only can be controlled by the remote.

4.If not, please re-operate from step 1 to 2.

## Typical Applications

Application Circuit 1:

Application Circuit 2: （*Synchronization function with network Line* ）