# 5 Channel RGB+CCT LED RF Controller

### Model No.: V5-M

5 Channels/DC power socket input/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize



#### Features

F© C C€ RoHS emc RED E

- DC power socket input and 5 channel constant voltage output.
- Match with RF 2.4G single zone or multiple zone RGB+CCT remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- · Synchronize on multiple number of controllers.
- Light on/off fade time 3s selectable.
- Frequency range: 2.4GHz ISM band

## **Technical Parameters**

Input and Output		
Input voltage	12-24VDC	
Input current	15.5A	
Output voltage	5 x (12-24)VDC	
Output current	5CH,3A/CH	
Output power	5 x (36-72)W	
Output type	Constant voltage	
Importer name	XXX (Allowed in UK)	
Importer address	XXX (Allowed in UK)	

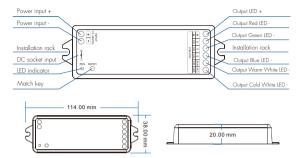
Dimming data		
Input signal	RF 2.4GHz	
Control distance	30m(Barrier-free space)	
Dimming gray scale	4096 (2^12) levels	
Dimming range	0-100%	
Dimming curve	Logarithmic	
PWM Frequency	1000Hz (default)	

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Ta: -30°C ~ +55°C
Tc:+85°C
IP20

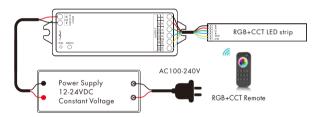
Warranty and Protection		
Warranty	5 years	
Protection	Reverse Polarity Short circuit	

#### Mechanical Structures and Installations

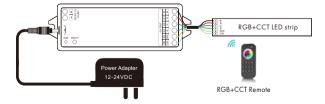


## Wiring Diagram

Connect constant voltage power supply



• Connect power adapter



Note: Lang press match key for 10s, RGB and CCT light can not be on at the same time.
Lang press match key for 15s, RGB and CCT light can be on at the same time.
above operation will also restore the factory setting.

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## Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

#### Use the controller's Match key

#### Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.

The LED indicator fast flash a few times

#### Delete:

Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

#### Use Power Restart

#### Match:

Switch off the power of the receiver, then switch on power. Repeat again.

Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

#### Delete.

Switch off the power of the receiver, then switch on power. Repeat again.

Immediately short press on/off key (single zone remote) or zone key (multiple zone remote). 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

## Application notes

#### 1. All the receivers in the same zone



RF remote

 $\textbf{Auto-transmitting:} \ \ \text{One receiver can transmit the signals from the remote to another receiver within 30m,}$ 

as long as there is a receiver within 30m, the remote control distance can be extended.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote, under same dynamic mode and with same speed.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range.

Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

#### 2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4



# Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times. Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

# Dynamic mode list

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out

#### Dual color control

CH4=Warm white LED

CH5=Cool white LED

Each channel can supply up to 72W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH4=0W,CH5=72W	CH4=72W,CH5=72W	CH4=72W,CH5=0W

# 

# Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	No power.     Wrong connection or insecure.	Check the power.     Check the connection.
Wrong color	1. Wrong connection of R/G/B/WW/CW wires.	1. Reconnect R/G/B/WW/CW wires.
Uneven intensity between front and rear, with voltage drop	Output cable is too long.     Wire diameter is too small.     Overload beyond power supply capability.     Overload beyond controller capability.	Reduce cable or loop supply.     Change wider wire.     Replace higher power supply.     Add power repeater.
No response from the remote	The battery has no power.     Beyond controllable distance.     The controller did not match the remote.	Replace battery.     Reduce remote distance.     Rematch the remote.

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